HITACHI

Inspire the Next

DVD AV Receiver and Digital Terrestrial TV Receiver

Model

HTD-K185UK

Instruction manual

To obtain the best performance and ensure years of trouble-free use. Please read this instruction manual completely.

Model Name: HTDK185UK

This model has the following features:

- DVD/CD-DA/CD-R/CD-RW Playback
- VCD (Video CD) Playback
- MP3 Playback
- JPEG Playback
- RDS (Radio Data System)
- Dolby Prologic II
- DVB-T Digital Terresterial Receiver

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ABOUT THIS MANUAL

Instructions in this manual describe the controls on the player. You can also use the controls on the remote if they have the same or similar names as those on the player.

Dear Customers

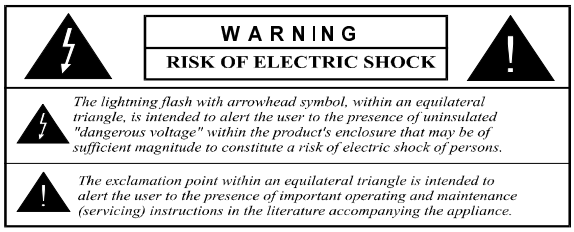
We would like to thank you for purchasing this DVD / VIDEO CD / S-VCD / Audio CD / MP3 / JPEG player and with built-in amplifier integrated tuner,DVB T receiver.

We strongly recommend that you carefully study the operating instructions before attempting to operate the unit and that you note the listed safety precautions.

WARNING

To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture.

To reduce the risk of fire or electric shock, and any interference, use the recommended accessories only.


WARNING
RISK OF ELECTRIC SHOCK
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

SAFETY INFORMATION

CAUTION

LASER CLASS 1	
Wave length:	650 nm (DVD) 790 nm (CD)
Maximum output of accessible laser radiation:	< 0,39 mW (continuous wave)
Classified according to IEC 60825-1:	1993 + A1: 1997

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure. Be sure to operate the player correctly as instructed.

While this player is plugged to the wall outlet, do not place your eyes close to the opening of the disc tray or other openings to look into the inside of this product for your own safety.

Use of controls or adjustments or performance of procedures other than those specified may result in hazardous radiation exposure. Do not open covers and do not attempt to repair any damaged parts. Refer product to a service technician or qualified professional for any necessary repair.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

The mains plug or the appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

IMPORTANT

The mains lead on this equipment may be supplied with a moulded plug incorporating a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced, an ASTA or BSI approved BS1362 fuse must be used of the same rating. If the fuse cover is detachable never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug. Fuse covers are available from your dealer.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

Should it be necessary to change the mains plug, this must be carried out by a competent person, preferably a qualified electrician.

If there is no alternative to cutting off the mains plug, ensure that you dispose of it immediately, having first removed the fuse, to avoid a possible shock hazard by inadvertent connection to the mains supply.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:

Blue : NEUTRAL
Brown : LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter **N** or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter **L** or coloured BROWN or RED.

On no account connect either of these wires to the terminal marked E or by the earth symbol ⏚ or coloured green or green and yellow.

Alternatively, this equipment may be supplied with a rewireable plug already fitted, which may be removed if not suitable and an alternative fitted in accordance with the preceding instructions.

SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between the pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DO route the mains lead so that it is not likely to be walked on, crushed, chafed, or subjected to excessive wear and tear or heat.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DON'T allow electrical equipment to be exposed to dripping or splashing, or objects filled with liquids, such as vases, to be placed on the equipment.

DON'T place hot objects or naked flame sources such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

DON'T use makeshift stands and **NEVER** fix legs with wood screws - to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and make sure that your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way - switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL

— NEVER let anyone especially children push anything into holes, slots or any other opening in the case - this could result in a fatal electrical shock;

— NEVER guess or take chances with electrical equipment of any kind

— it is better to be safe than sorry!

SAFETY PRECAUTIONS

Power Source:

The unit should be operated only from a 220-240V~ 50 Hz outlet. Please do not open the cover by yourself. There is high voltage in the set, which will endanger your life. Please contact local service agent for help and advice. Repairs to be carried out by a qualified technician only.

• The player is not disconnected from the AC power source (mains) as long as it is connected to the wall outlet, even if the player itself has been turned off.

• If you are not going to use the player for a long time, be sure to disconnect the player from the wall outlet.

Power Cord:

Do not place the unit, a piece of furniture, etc., on the power cord (mains lead), or pinch the cord. Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Never make a knot in the cord or tie it with other cords. The power cords should be routed in such a way that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask closest service agent for help. If the AC power cord need to be changed, it should be done at a qualified service shop only.

Choice of Location:

• Please do not place the set in a place subject to direct sun light, excessive dust or mechanical shock or in a location near heat sources.

• The set should be placed on a solid and safe base. Do not place the player on a soft surface such as a rug that might block the ventilation holes on the bottom.

• A location should not be selected such as a room with high humidity, as the condensation, arising in the kitchen for example, may cause malfunction or damage the set.

• Heating or other thermal radiation under the set also may cause malfunction or damage the set.

• The hot air, which arises during the operation, should be ventilated with sufficient air circulation. Please do not put the set into closed areas and do not cover it.

• Please avoid the contact of the set with water or humidity. Do not put into operation near bath, swimming pools.

• Take care to provide a good air circulation. Place the player in a location with adequate ventilation to prevent heat build-up in the player.

• Should any solid object or liquid fall into the cabinet, unplug the player and have it checked by qualified personnel before operating it any further.

• Unplug the receiver before it is cleaned. Use a lightly dampened cloth only. Do not use liquid or aerosol cleaners.

• The receiver should not be placed near to naked flames or sources of intense heat, such as an electric fire. Ensure that no naked flames sources, such as lighted candles, are placed on top of the Receiver.

• Unplug your receiver from the wall socket if there is a storm or lightning, or if it is to be unused for a long time.

• If your receiver needs a replacement part, ensure the person undertaking the repair uses parts which are specified by the manufacturer or have the same specifications as the original part. Other parts may cause a fire, electric shock or other hazards.

• Please ensure that exhausted batteries from the remote control handset are disposed of safely.

• Ensure the person who services your receiver is qualified to do so. Do not remove the cover yourself - you could get an electric shock.

We are proud to offer a high-quality product. To keep this level of quality, your receiver should be serviced at a authorised service centre.

GENERAL PROPERTIES

1) DVD/VCD/S-VCD/CD/MP3/JPEG playback

2) NTSC/PAL playback (according to disc content)

3) User-friendly multilanguage OSD menu control

4) Vacuum Fluorescent Display (VFD)

5) Dolby Digital, DTS, MPEG Multichannel, LPCM audio via analog audio outputs (5.1 and left, right)

6) 60 FM preset radio stations

7) Built in digital amplifier - 20 W RMS output for surround speakers and 35 W RMS output for subwoofer

8) Test tone for easy speaker setup (Setup Menu)

9) Equalizer for DVD/VCD/MP3/Radio (7 preset setting)

10) Total and seperate volume control for each speakers & mute function

11) Multiple Aspect Ratio support (16:9 Widescreen, 4:3 Letterbox, 4:3 PAN & SCAN)

12) Multi-Audio (up to 8) support (According to disc content)

13) Multi-Subtitle (up to 32) support (According to disc content)

14) Multi-Angle (up to 9) support (According to disc content)

15) 8 level parental control

16) Fast forward and rewind in 5 different speeds. (2x, 4x, 8x, 16x, 32x)

17) Smooth and seamless playback in 2x speed.

18) Slow motion playback in 4 different speeds. (1/2x, 1/4x, 1/8x, 1/16x forward and backward)

19) Frame by frame forward and backward playback (Step Forward & Step Backward)

20) Time Search

21) Repeat

22) A →B repeat

23) Program function for Audio CD/MP3 CD

24) Scart input for DVB/VCR/DVD

25) AV input for DVB/VCR/DVD

26) Digital Optic Output

27) Scart output

28) Video output

29) S-Video output

30) Analog audio outputs & (left, right)

31) 5.1 channel speaker outputs

32) DVB Terrestrial receiver

DISC TYPES COMPATIBLE WITH THIS UNIT

This player can play the following discs.

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD	Audio + Video	12 cm	Single - sided; 240 min. Double - sided; 480 min.	• DVD contains excellentsound and video due to Dolby Digital and MPEG-2 System. • Various screen and audio functions can be easily selected trough the on screen menu.
		8 cm	Single - sided; 80 min. Double - sided; 160 min.	
VIDEO-CD	Audio + Video	12 cm	74 min.	• Video with CD sound, VHS quality & MPEG-1 compression technology.
		8 cm	20 min.	
AUDIO-CD	Audio	12 cm	74 min.	• An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
		8 cm	20 min.	
MP3-CD	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	• MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
PICTURE-CD	Video (still picture)	12 cm	It depends on JPEG quality.	• JPEG is recorded as a Digital Signal with better picture quality over time.

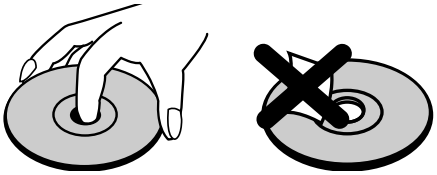
NOTES ON DISCS

On handling discs:

• To keep the disc clean, handle the disc by its edge. Do not touch the surface.

• Do not stick paper or tape on the disc.

If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.

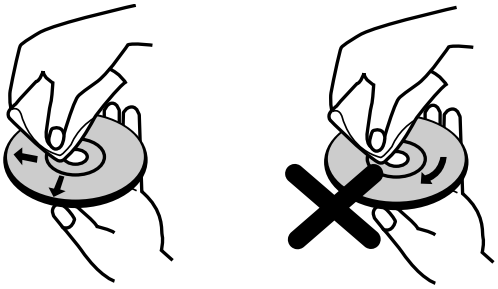


• Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as there can be considerable rise in temperature inside the car.

After playing, store the disc in its case.

On cleaning:

Before playing, clean the disc with a cleaning cloth. Wipe the disc from the center out.



Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

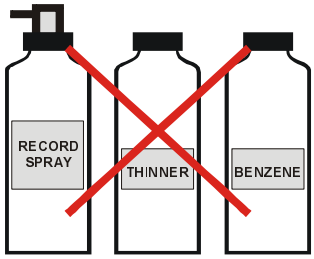
Discs that should not be used:

Only the discs including the marks shown on page 7 can be played.

Note, however, that discs with special shapes (heart-shaped discs, hexagonal discs, etc.) cannot be played. Do not attempt to play such discs, as they may damage the player.

NOTE:

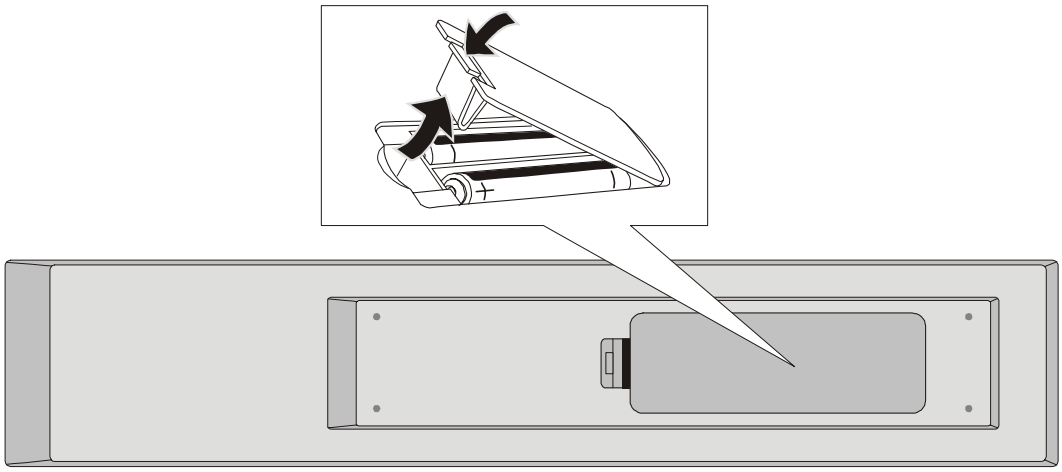
Do not use record spray or antistatic. Also do not use volatile chemicals such as benzene or thinner.



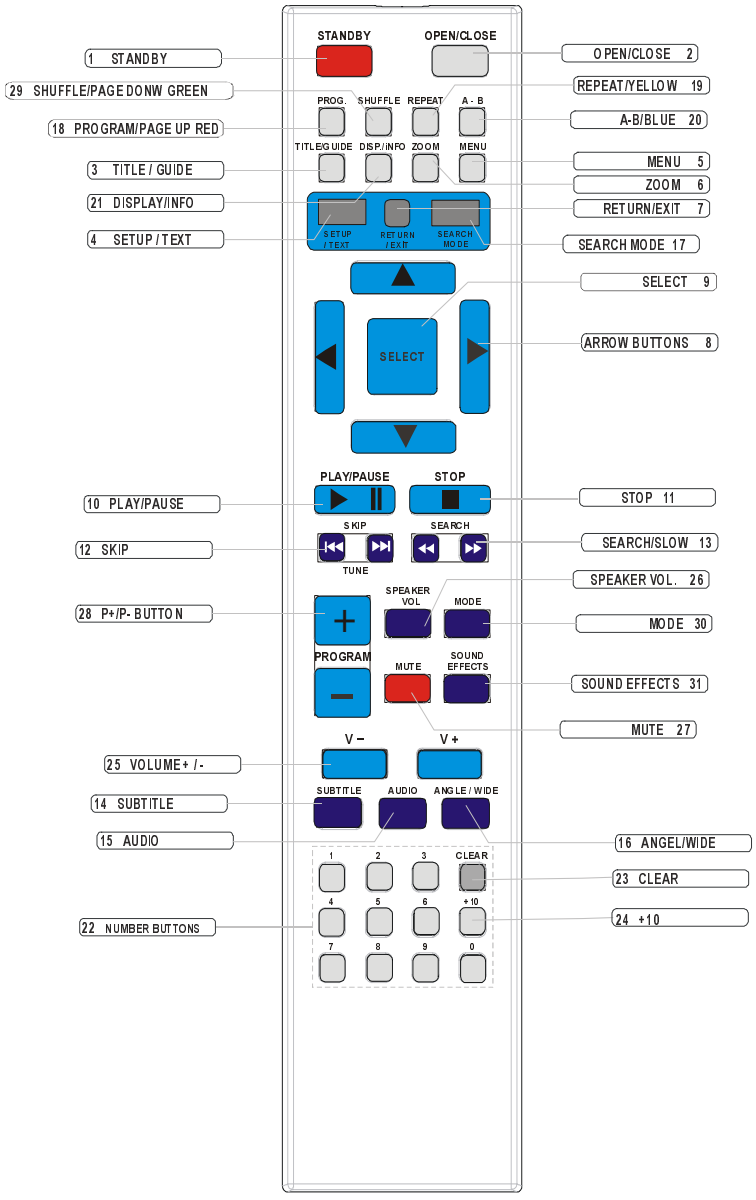
FITTING BATTERIES IN YOUR REMOTE CONTROL

First open the battery cover on the underside of the remote control. Fit both batteries 1.5Volt (R03/AAA) referring to the imprinted symbols (+/-) in the battery case and put on the battery cover again.

While using the remote control, direct it towards the front of the AV receiver. If the remote control does not work or the chosen function could not be made, the batteries are most probably exhausted and they should be replaced as soon as possible. Please use only the leak proof batteries. If you will not be using your remote control for a long time, it is recommended to take out the batteries from your remote control to avoid possible damage from battery leakage and corrosion. Do not leave the remote in an extremely hot or humid place.



REMOTE CONTROL



1. STANDBY button

Using this button player is changed into Standby or normal mode.

System starts in DVB mode after exiting standby mode.

2. OPEN/CLOSE button

Opens or closes the disc tray.

3. TITLE/GUIDE button

Displays the title menu on the TV screen.

Display and exit electronic programme guide.

4. SETUP/TEXT button

Displays Setup menu on the TV screen.

For DVB mode Start and stop digital teletext.

5. MENU button

Displays the DVD root menu on screen.

For DVB mode Display the Main menu. Exits menus.

6. ZOOM button

Zooms the picture by 2x, 3x, 4x, 1/2x, 1/3x, 1/4x while playing DVD/VIDEO CD.

7. RETURN / EXIT button

Press to return to the main page in SETUP menu or to cancel some functions like title/time search, Radio Memory Set etc.

8. Arrow buttons

Move to the items or settings.

9. SELECT button

Executes the items or settings.

In radio mode it used to switch to memory set mode.

10. PLAY/PAUSE button

Plays/pauses the disc. For any DVD title that has a root menu with still picture, this button functions as "button select" (selects highlighted item) in the root menu. Otherwise the disc will prohibit this functioning of "play/pause" button on the root menu, and "" symbol will appear.

11. STOP button

Stops playing disc.

12. SKIP/FRAME button

Press to go to the next chapter or track, or to go back to the preceding chapter or track during playback and next/previous frame during pause.

In radio mode these buttons are used to switch to preset channels.

13.SEARCH/SLOW button

Press to adjust the forward and reverse playback speed x2, x4, x8, x16 and x32 times during playback (rapid advance/reverse) and x32, x16, x8, x2 times during pause (Slow motion).

In radio mode these buttons are used to adjust radio frequency manually.

14. SUBTITLE button

Changes the language of the subtitle while playing a DVD.

15. AUDIO button

Changes the language of the sound while playing a DVD. In radio mode it is used to enable or disable stereo property.

16. ANGLE/WIDE button

Changes the angles when playing a DVD.

For DVB mode select screen format.

17.SEARCH MODE button

Press to select the unit for search (title, chapter, track, time etc.)

18. PROGRAM/PAGE UP RED button

Press to enter the program menu in stop mode for audio CD and MP3 CD.

For DVB mode move up a page through channel list .Select red option in digital teletext

19. REPEAT/YELLOW button

Press to execute disk/title/chapter repeat.

For DVB mode scroll up through EPG programme details .Select yellow option in digital teletext.

20. A→B/BLUE button

Press to execute the A→B repeat play.

For DVB mode scroll down through EPG programme details .Select blue option in digital teletext.

21. DISPLAY/ INFO button

Displays the current playing status on TV screen or changes the playing time display mode of the disc, title, track etc., on the OSD and front panel display for VCD and CD.

For DVB mode Display menu help.

22. Number buttons

Press to enter track/chapter/title/time/channel/etc…numbers directly.

***23.* C (Clear) button**

Using this button you can delete the mistyped entries or you can cancel some functions.

24. +10 button

Using this button you can enter the numbers greater than 9.

In radio mode it is used to enter two digits, cursor is appeared on the VFD.

25. Volume +/- buttons

Using this buttons you can adjust speaker volumes.

26. Speaker Vol button

Using this button you can select each speakers volume to be adjusted by Volume +/- buttons.

27. Mute button

Using this button you can mute all the system volume.

28.P+/P- button

Changes channels in DVB mode.

29. Shuffle button/PAGE DOWN /GREEN

Using this button you can shuffle the order of the MP3 playback.

For DVB mode move down a page through channel list move to bottom in EPG programme details.

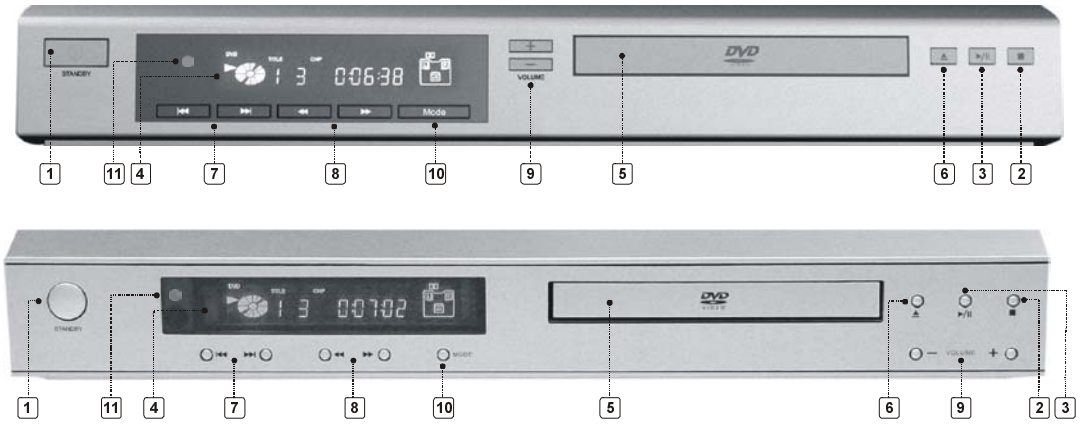
30. MODE button

Using this button you can change the receiver mode between DVD/CD-Radio-AV-SCART/TV/DVB.

31. SOUND EFFECT BUTTON

You can select the type of effect or turn on/off equalizer by pressing this button consecutively.

FRONT PANEL FUNCTIONS



1. STANDBY button

Turns on and off the standby of the player.

2. STOP button

Stops playing disc.

3. PLAY/PAUSE button

Plays/Pauses the disc. For any DVD title that has a root menu with still picture, this button functions as “button select” (selects highlighted item) in the root menu. Otherwise the disc will prohibit this functioning of “play/pause” button on the root menu, and **“”** symbol will appear on screen.

4. Front Panel Display (VFD)

Indicates the playing time, title, chapter/track, etc.

5. Disc Tray

Place a disc on the tray.

6. OPEN/CLOSE button

Opens or closes the disc tray.

7. SKIP buttons

Press to go back to the preceding chapter/track or to go to the next chapter/track.

8. SEARCH buttons

Used to search fast forward or backward at 2, 4, 6 or 8 times normal playback speed.

9. VOLUME + /- buttons

Using these buttons you can adjust speaker volumes.

10. MODE button

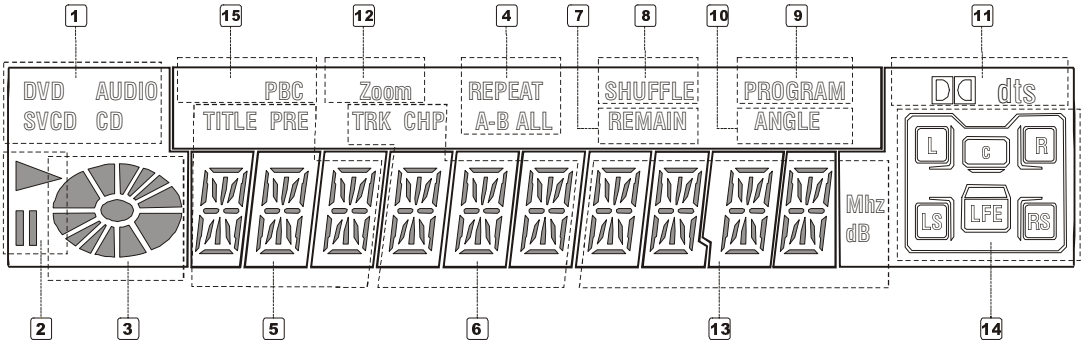
Using this button you can change the receiver mode between DVD/CD - Radio - SCART / AV / TV/DVB

11. Standby LED

Indicates Standby and normal operation modes.

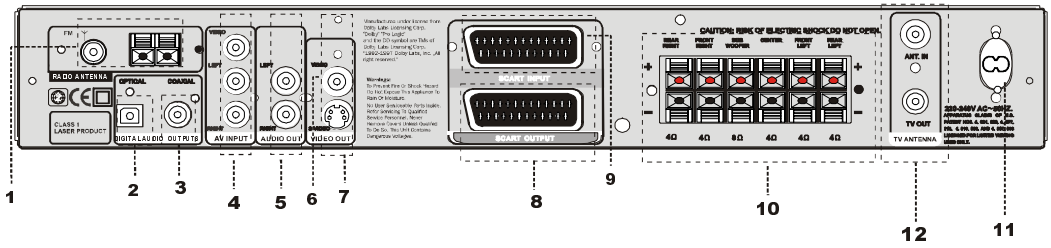
RED: Stand-By

FRONT PANEL DISPLAY (VFD)



1. Current Disc
2. Play/Pause
3. Playing
4. Repeat mode
5. Title Number
6. Track/ Chapter Number or Preset Radio Channel Info
7. Remain
8. Shuffle
9. Program
10. Angle
11. Dolby Digital –DTS audio
12. Zoom
13. Time or Radio Frequency Info
14. Speaker Outputs
15. PBC

REAR PANEL CONNECTIONS



1.FM ANTENNA connectors

Connects to FM Antenna .

2. DIGITAL OUT (OPTICAL) connector

Connects an audio component using the optical digital connection cord or Outputs 5.1 Channel digital audio

3. DIGITAL (COAXIAL) connector

Connects an audio component using the coaxial digital connection cord.

4. AV Input connector

Connects audio & video component using Video, Audio Left and Audio Right.

5. AUDIO OUT connectors

Outputs Audio Left, Right Audio signals.

6. VIDEO OUT connector

Outputs a composite video signal.

7. S VIDEO OUT connector

Outputs an S video signal.

8. SCART connector

The standard 21-pin SCART connector outputs Audio and Video signals.

9. SCART Input connector

A standard 21 pin SCART connects Audio and Video signals.

10. SPEAKER connectors

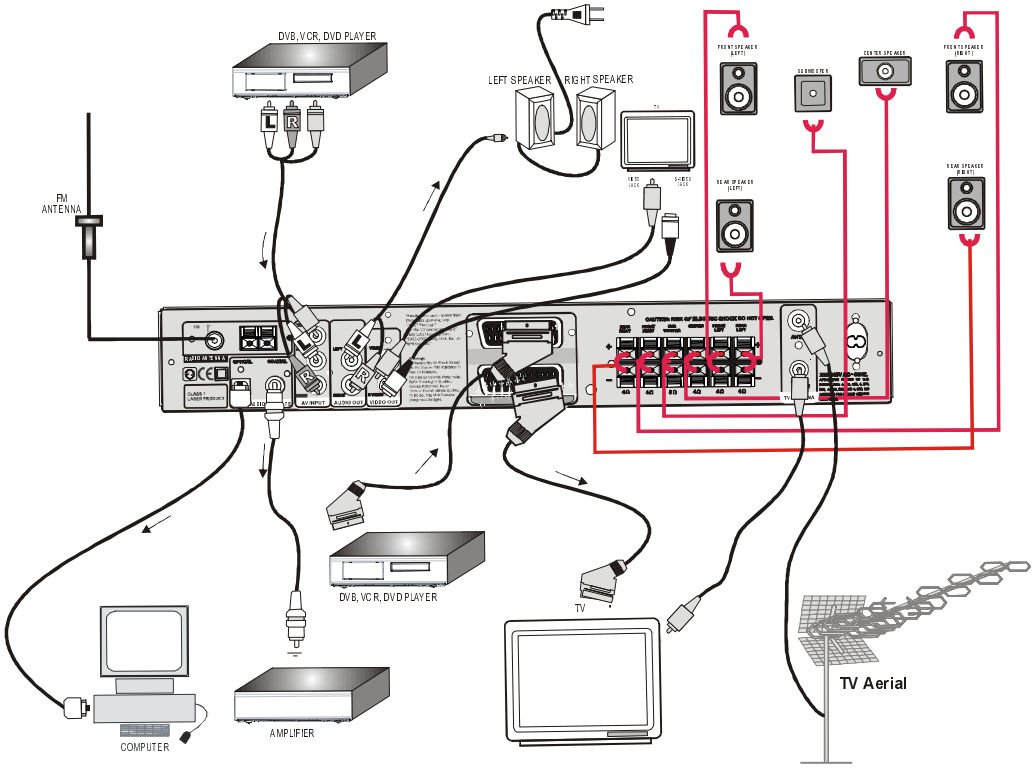
Outputs Amplified Audio signals to the speakers.

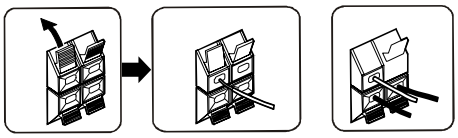
11. AC Power Cord

12. DVB-T antenna Connector

CONNECTION OF YOUR RECEIVER WITH TV

Be sure to turn off the standby of each component before making the connections.

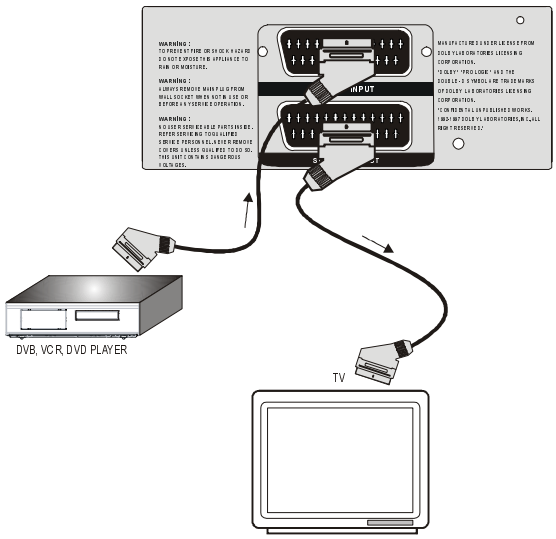




Connection to the speaker terminals

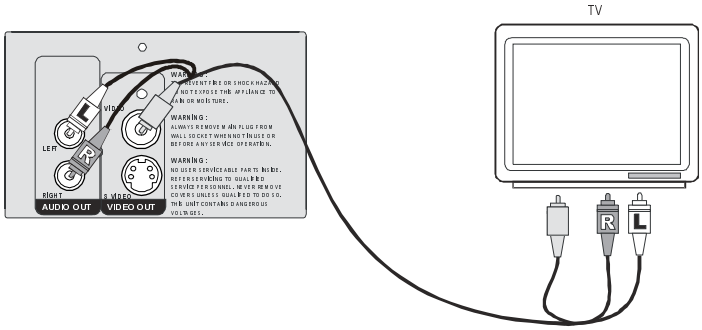
SCART SOCKET

Connecting your DVD receiver to TV via scart socket with a scart cable gives you the best picture performance. If your DVD receiver will not be connected to a hi-fi set or A/V amplifier to hear better sound, scart is enough for both audio & video connections.



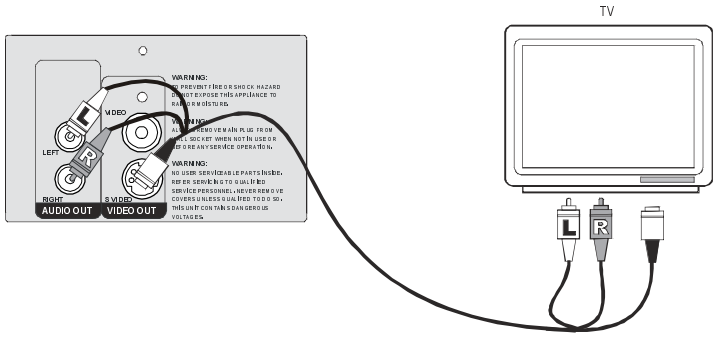
VIDEO & AUDIO OUTPUT SOCKETS

Video (yellow) & audio (Red: right, White: left) output sockets can be used to connect the DVD receiver to your TV set via cables. To make this connection, your TV set must have Video & audio input connectors. This type of connection is alternative to scart connection. Picture quality is not as good as Scart connection but audio performance is the same.



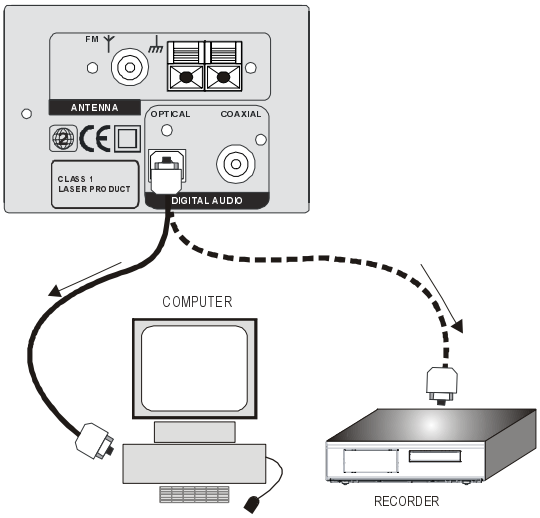
S-VIDEO OUTPUT SOCKETS

S-Video Output socket can be used to have a better picture quality than the video output. Your TV set must have S-video input connector for this type of connection. This socket is only used for the video connection. For audio, red & white output sockets must be used. S-video picture quality is not as good as Scart connection.



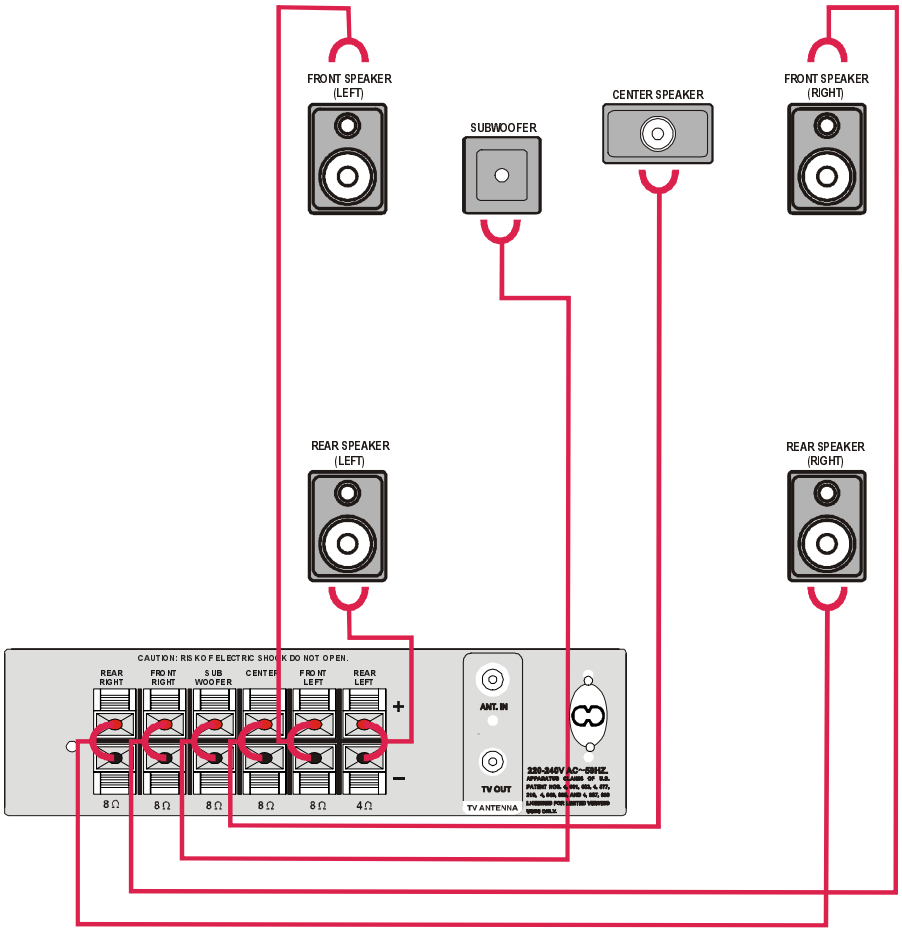
DIGITAL AUDIO Output socket (OPTICAL)

The unit can be connected via optical digital audio output to recorder units or computer for recording 5.1 channel surround sound.



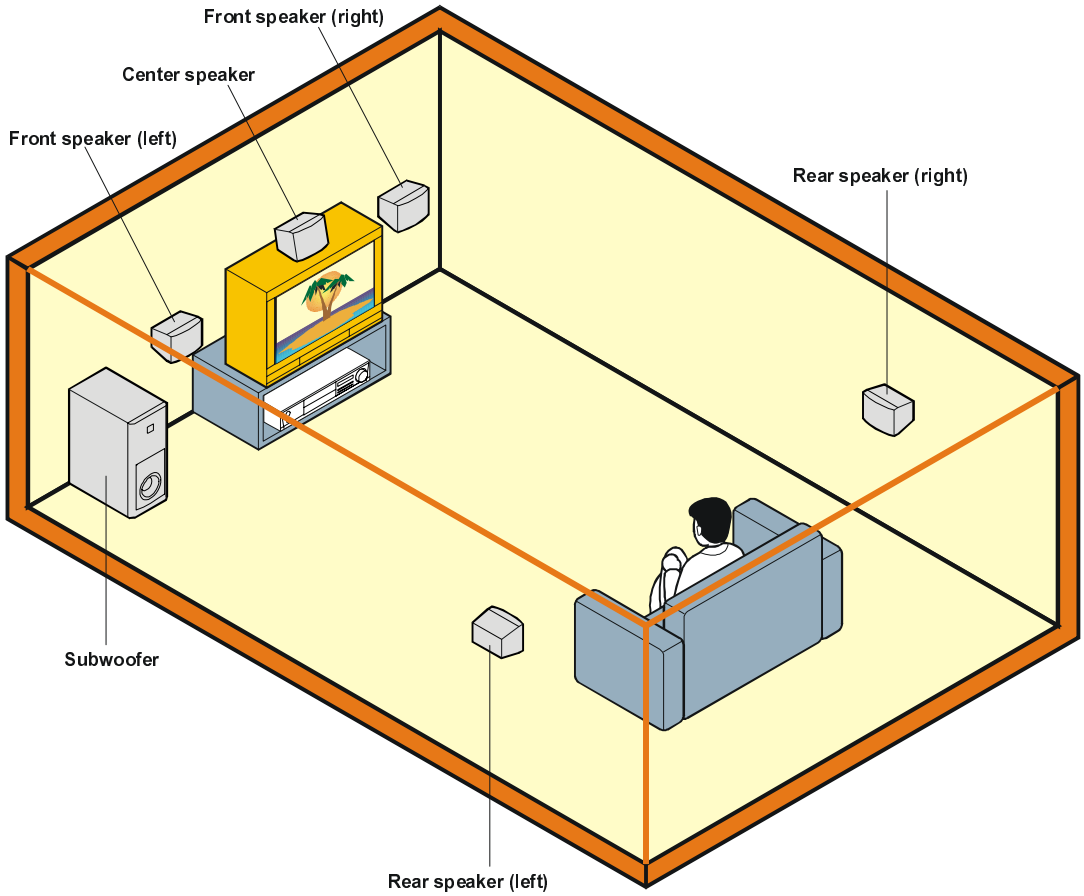
CONNECTION OF YOUR RECEIVER'S SPEAKERS

You can connect 5.1 speaker set to the AV receiver as shown in the figure below.



BEST SPEAKER CONNECTION OF YOUR ROOM

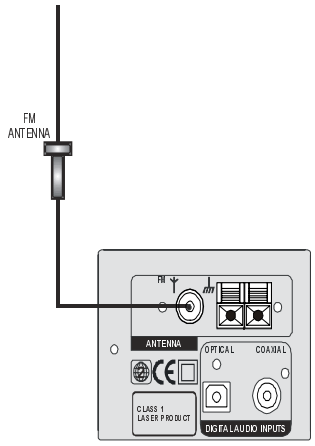
To get the best performance form your receiver system you have to arrange your speaker set according to your room shape as shown in the figures below.



After finishing the speaker connection use Test Tone item in Speaker Setup page to test if the speaker connection is right or not. A test tone will be applied to each speaker (Left, Right, Surround Left, Surround Right, Center and Subwoofer).

CONNECTION OF YOUR AV RECEIVER'S FM ANTENNA

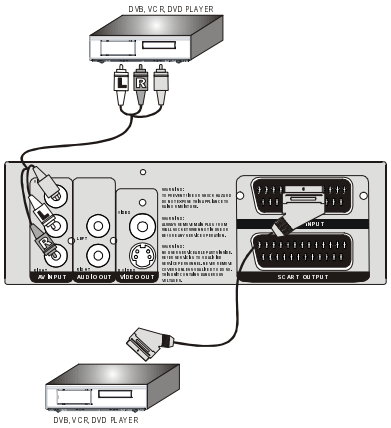
To get the best radio performance connect the FM antenna as shown in the figure below.



You can switch to Radio Mode by using "MODE" button.

CONNECTION OF YOUR VIDEO SOURCES (AV OR SCART)

You can connect your Video Sources (DVB, VCR, DVD etc) to your AV receiver as shown in the figure below.



You can switch to AV or SCART using mode button.

Putting into operation

After making the necessary connections stated above, plug the power cord to the mains socket. Unit will be in standby mode. Press standby to turn on the unit. Press "MODE" to switch between Disc Player, DVB,Radio, AV and SCART/TV.

SELECTING THE MODE

You can select the DVDreceiver, Radio, DVB, AV, TV or SCART using the Mode button.

Radio

To get the best performance be sure that FM antenna is connected to the AV receiver. AUDIO VFD grid will be highlighted in radio mode.

Adjusting the frequency :

• Press Search Forward or Search Backward to increase or decrease the frequency till you reach the desired station. VFD will display the frequency.

Storing the channel in the Memory :

• After tuning in the desired station you can store it in the memory . In order to do that ;

• Press on the Select button to enter Memory Set mode. Program grid is displayed on the VFD. You can use Return button to cancel Memory Set mode.

• Press the number button that you want to store this station. Use 10+ button to enter two digits. VFD will display the preset station number and its frequency.

You can keep 60 FM station in the memory.

Selecting the preset station:

• Press the number button of the desired preset station. VFD will display the preset station number and its frequency. Use 10+ button to enter two digits.

• Press the Skip Next or Skip Previous button to increase or decrease the preset station number. VFD will display the preset station number and its frequency

AV MODE

You can use AV connection only in Normal operation. You can switch to your connected Video Source using mode button. In this connection you can use your receiver as an Amplifier. Standby, Mute, Speaker Volume and Mode buttons can be used in this mode .

SCART MODE

In this mode scart audio and video inputs are used. You can use Scart connection in Standby and Normal operation.

IN STANDBY MODE

If there is a Video and Audio signal in Input of receiver, this signal will be given as a SCART output automatically. Standby, Open/Close, and Play buttons can be used in this mode.

IN NORMAL MODE

You can switch to your connected Video Source using mode button. In this connection you can use your receiver as an Amplifier. Standby, Mute, Speaker Volume and Mode buttons can be used in this mode.

TV MODE

In this mode audio input signals from output scart are amplified and sent to 5.1 speaker outputs.

DVB MODE

In this mode you can use your system as DVB-T receiver.

DVD RECEIVER MODES

RADIO DATA SYSTEM (RDS)

In TUNER mode, use DISPLAY key to change following RDS modes :

• **RDS OFF**

Frequency information is displayed.

• **PROGRAMME SERVICE NAME (PS)**

This field is 8 characters long. Generally it is used for static station name. But some stations broadcast longer messages dynamically using this field.

• **RADIO TEXT (RT)**

This message is at most 64 characters and will scroll from right to left.

• **PROGRAMME TYPE (PTY)**

There is about 30 different programme types (News, Sport, Pop M, Classic, …)

In this mode use SEARCH MODE key to make PTY SEARCH. Next channel with the same PTY will be switched.

Note :

PTY search is done over prestored PTY information.

• **DATE**

Date information is updated every one minute if available.

• **TIME**

Time information is updated every one minute if available.

Notes :

• RDS information will be displayed if available.

If you can't get RDS information

- plase check your antenna performance
- station may not be sending data

AUDIO FUNCTIONS

Volume +/-

You can increase or decrease the total or each speaker's volume using these buttons.

You can use volume control in all modes.

Speaker Volume

If you want to adjust any of the speakers volume;

• Select the speaker that you want to change the volume setting.

• Use Volume +/- button to adjust the selected speaker volume

You can use speaker volume control in all modes.

Test Tone

If you want to test operation of speakers use test tone item in speaker setup page to apply test tone to each speaker.

You can use test tone function only in DVD mode.

Mute

You can mute volume by pressing this button. You can cancel mute by pressing it again.

You can use mute control in all modes.

Sound Effect

You can open the Equalizer menu by pressing this button.

You can use sound effects in DVD and Radio modes.

Equalizer Menu

You can select the type of effect (standard, classic, jazz, rock, pops, ballad, dance), display the frequency bars or turn on/off equalizer, by pressing this button consecutively.

DVD PLAYBACK

Preparations

• Press on the standby button of your audio system if the player has been connected to an audio system.

Basic Play

1. Press on the standby button

2. Press Mode button until you select DVD mode.

3. Press OPEN/CLOSE to open the disc tray.

4. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

5. Press OPEN/CLOSE.

• The disc tray is automatically closed and play commences.

• A menu may appear on the TV screen after a few moments or the film may start immediately after the introduction of the movie Company. This behaviour depends on the disc content and may change.

NOTE:

Step 5 is available only when a menu is shown after the disc is inserted.

Press ◄ ► ▼ ▲ or the number button(s) to select the preferred menu item.

5. Press SELECT

Play of the selected items now starts. The played item may be a movie, a still picture or another submenu depending on the disc.

NOTE:

When using menus the disc controls the behaviour of the player.

Stopping play and returning to the menu screen (when a menu is available on the disc)

Press **MENU** or **TITLE** button depending on the disc. Play is suspended, and the Disc menu screen is displayed.

After operation

When the unit is not in use, remove the disc and press **STANDBY** to turn off the unit.

NOTE:

• The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the STOP button to clear the menu display.

• If the disc is placed upside down (and it is a single sided disc), the VFD display on the player will indicate NO DISC.

For your reference:

• If an action corresponding to a button is prohibited the "⃠" symbol appears.

Stopping Play

Press stop twice.

For your convenience:

• When **STOP** is pressed once, while the play continues, the unit records the point where the play is stopped and if the **PLAY** key is pressed, playback resumes from the point where the **STOP** key was pressed. When the tray is opened or the **STOP** is pressed again, the RESUME function will be cleared.

• To stop the play permanently, press **STOP** twice. When the **STOP** button is pressed for the first time, a message "PRESS PLAY TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** button again or you can press **SELECT** to continue.

RAPID ADVANCE / RAPID REVERSE

Press SEARCH/SLOW (⏪ Fast reverse or ⏩ Fast forward) on the remote control or Search ⏪ or ⏩ on the main unit during play.

• Normal play is resumed when the **SELECT** button is pressed or **PLAY/PAUSE** button is pressed twice.

• The speed of advance (⏩ 2x, ⏩ 4x, ⏩ 8x, ⏩ 16x, ⏩ 32x) or reverse (⏪ 2x, ⏪ 4x, ⏪ 8x, ⏪ 16x, ⏪ 32x) changes for

every press of the ⏩ or ⏪ button.

SKIPPING AHEAD OR BACK TO CHAPTERS

Skipping ahead

Press SKIP/ FRAME ⏭ (Next) on the remote control or SKIP ⏭ on the main unit during play.

A chapter is skipped forward each time the button is pressed.

Skipping back

Press SKIP/ FRAME ⏮ (Previous) on the remote control or SKIP ⏮ on the main unit during play.

When the button is pressed once midway through a chapter, play returns to the previous chapter.

STILL PICTURE (PAUSE)

Press PLAY/PAUSE once during play.

The screen suspends.

To return to normal play press PLAY/PAUSE again.

FRAME ADVANCE (STEP FORWARD)

Press PLAY/PAUSE once during play.

The screen suspends.

Press SKIP/ FRAME ⏭ (Next) on the remote control or SKIP ⏭ on the main unit.

The next frame of the movie is displayed.

You can press SKIP/ FRAME ⏭ (Next) for the following frames.

FRAME BACK (STEP BACKWARD)

Press PLAY/PAUSE once during play.

The screen suspends.

Press SKIP/ FRAME ⏮ (Previous) on the remote control or SKIP ⏮ on the main unit.

The previous frame of the movie is displayed.

You can press SKIP/ FRAME ⏮ (Previous) for the preceding frames.

SLOW- MOTION PLAY FORWARD

Press PLAY/PAUSE once during play.

The screen suspends.

Press SEARCH/SLOW ⏩ on the remote control or Search ⏩ on the main unit

The unit starts playing the movie at four different speeds (⏩ 1/2, ⏩ 1/4, ⏩ 1/8, ⏩ 1/16).

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ⏩.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press PLAY/PAUSE.

SLOW- MOTION PLAY BACKWARD

Press PLAY/PAUSE once during play.

The screen suspends.

Press SEARCH/SLOW ⏪ on the remote control or Search ⏪ on the main unit

The unit starts playing the movie at four different speeds (⏪ 1/2, ⏪ 1/4, ⏪ 1/8, ⏪ 1/16).

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ⏪.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press PLAY/PAUSE.

NOTE:

The sequence for the slow-motion is as follows:

(⏪ 1/16, ⏪ 1/8, ⏪ 1/4, ⏪ 1/2, PAUSE, ⏩ 1/2, ⏩ 1/4, ⏩ 1/8, ⏩ 1/16)

DIRECT SELECTION OF SCENES

Selecting Scenes by Chapter Number

Press SEARCH MODE on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the currently playing and total number of chapters on right hand side of the display bar as — / xx.

Enter the number of the chapter using number buttons.

The selected chapter is played just after you enter the chapter number.

For your convenience:

• If the chapter number you entered is between 0 and 9, player will automatically jump to the related chapter. To enter a chapter number which is more than 1 digit, press **+10 KEY** and then enter the chapter number.

• You can clear the field by pressing the **C** button if you enter wrong number.

• If you attempt to enter a number greater than the total number of chapters on the current title, the search box disappears and "⃠" message is displayed on screen.

• If you wait five seconds without pressing any key for selecting scenes by chapter number, the operation is cancelled.

Selecting Scenes by Title Number

Press SEARCH MODE on the remote control once during playback.

The chapter/title search box is displayed on the screen. You can see the currently playing and total number of titles in left hand side of the display bar as / xx.

Press ◂ (Left) or ▸ (Right) button on the remote control to select the title field in the search box to change the title.

You can see the currently playing title and total title numbers on the top-left side of the display as — / xx.

Enter the number of the title using number buttons.

The selected title is played just after you enter the title number.

For your convenience:

• Enter the title number between 0 and 9, your request will be acknowledged immediately without pressing any other key. To select a title number which is more than 1 digit, press **+10 KEY** and then enter the title number.

• You can clear the field by pressing the **C** button if you enter wrong number.

• If you attempt to enter a number greater than the total number of titles, the search box disappears, "⃠" message appears.

• If you wait five seconds without pressing any key for selecting scenes by title number, the operation is cancelled.

• You can press **RETURN** key to cancel title search.

Selecting Scenes by Time

You can view the DVD starting from any time point you want.

Press SEARCH MODE on the remote control " twice " during playback.

The time search box is displayed on the screen You can see the total runtime of the title on right side of the display bar as Title xx/xx Time: — : — : —

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

Press SEARCH MODE on the remote control " third time " during playback.

The time search box is displayed on the screen. You can see the total runtime of the Chapter on right side of the display bar as Chapter xx/xx Time: — : — : —

Enter the time using number buttons.

The Chapter is played beginning from the desired time just after you enter the time. If not prohibited by the DVD.

For your convenience:

• You can clear the fields by pressing the **C** button if you enter wrong numbers.

• If you attempt to enter a number greater than the total time of the current title, the time search box disappears, "⃠" message is displayed on screen.

• If you wait five seconds without pressing any key to enter time, selecting scenes by time option is cancelled.

• You can press **RETURN** key to cancel time search.

REPEAT PLAY

Repeat Viewing

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

• If "CHAPTER" is displayed, the current chapter will be played again.

• If "TITLE" is displayed, the current title will be played again.

• If "ALL" is displayed, all titles and chapters will be played again.

NOTE:

Repeat play may be prohibited by some DVD titles.

Repeating sections between two specific points. (A-B repeat)

Press A-B during play at the point where repeat play is to commence (A).

"A " is displayed.

Press A-B again at the point where repeat play is to be concluded (B).

"AB " is displayed and the repeat play of the selection between points A and B starts, if not prohibited by the DVD.

To return to normal play

Press **A-B** again.

CONVENIENT FUNCTIONS

Displaying the time information

Press DISPLAY during PLAY.

During playback, each time this button is pressed, some information is displayed on TV screen to indicate the current status of the disc. On the display screen you can find the following information lines:

Line 1: Title & Chapter Numbers

Line 2: Audio Format, Number of Output Channels & Audio Language

Line 3: Subtitle Language Number & Subtitle Language

Line 4: Time Counter Mode & Time Counter

Time counter modes can be selected by pressing **DISPLAY** key consecutively.

First hit to **DISPLAY** key: Line 4 -> CHAPTER ELAPSED Mode

Second hit to **DISPLAY** key: Line 4 -> CHAPTER REMAIN Mode

Third hit to **DISPLAY** key: Line 4 -> TITLE ELAPSED Mode

Fourth hit to **DISPLAY** key: Line 4 -> TITLE REMAIN Mode

• If "Time Display: TITLE ELAPSED" is displayed, the elapsed time for the title is being displayed.

• If "Time Display: TITLE REMAIN" is displayed the remaining time for the title is being displayed.

• If "Time Display: CHAPTER ELAPSED" is displayed, the elapsed time for the chapter is being displayed.

• If "Time Display: CHAPTER REMAIN" is displayed, the remaining time for the chapter is being displayed.

Pressing the **DISPLAY** key for the fifth time closes display menu screen.

Displaying a scene with a larger and closer view

The 'zoom in' function enables you to take a closer look at the scene you are viewing.

Press ZOOM during play.

"2x" is displayed on the screen and the picture is now larger. By pressing **ZOOM** key consecutively you can reach "3x", "4x", "1/2x" , "1/3x" , "1/4x" modes.

NOTE:

You can move in the picture i.e. change the zoomed location by using the **(Left)** / **(Right)** / **(Down)** / **(Up)** arrow keys.

To return to normal play

Press ZOOM again.

Displaying / Changing Subtitle Language

It is possible to change the subtitle language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple subtitle languages are recorded.)

Press SUBTITLE during play.

When no subtitles are recorded "⊘" will be displayed instead of the selected language.

Press SUBTITLE a number of times until the preferred language is selected.

When this button is pressed once, the first subtitle recorded on the disc will display. The rest of the subtitles recorded will display in sequence for every press of the **SUBTITLE** button.

NOTE:

In some cases, the subtitle language is not changed immediately to the selected one.

For your convenience:

• When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.

• When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.

• If a language is selected, which is not supported by the disc, the subtitle language will automatically be set to the disc's priority language.

• Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "Subtitle Off " appears on the screen.

Changing Audio Soundtrack Language

It is possible to change the audio language from the one selected at the initial settings to a different language, if available.

(This operation works only with discs on which multiple audio soundtrack languages are recorded, if not prohibited by the DVD.)

Press AUDIO during play.

Press AUDIO a number of times until the preferred language is selected.

For your convenience:

• When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.

• When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.

Viewing From Another Angle

Some DVD discs may contain scenes, which have been shot simultaneously from a number of different angles. For these discs, the same scenes can be viewed from each of these different angles using the ANGLE button.

The number of recorded angles differs depending on the disc used.

" y/x " is displayed shortly on the screen during playback. This indicates that the multi-angle scene has just started. Also on unit's display 'ANGLE' message appears. From that moment on, the **y**th angle of total **x** angles is played and you can change the viewing angle until the end of the multi-angle scene.

NOTE:

• In **SETUP** menu, an 'ANGLE MARK' option exists, which, if enabled, will display a continuous angle mark on the screen as long as multi-angle scene is available.

Press ANGLE during play.

The current angle is changed.

Press ANGLE a number of times until the preferred viewing angle is selected.

NOTE:

• This function will only work on discs where different angles have been recorded.

• The viewing angles are shown on the screen. You can select one from them for viewing.

• If you press ANGLE outside of a multi-angle scene on a multi-angle title, you will see that **"⊘"** is displayed. This means that there are total **x** angles on that title and the **y**th angle has been selected to be played, when the multi-angle scene starts. **"⊘"** means that there is only one angle currently available.

USING A DVD MENU

Some DVD discs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menus' contents and operation differ from disc to disc, the following explains basic operation when this feature is used.

Press TITLE or MENU on the remote control or on your unit during play.

The DVD menu available on the disc is now displayed.

NOTE:

• If you press MENU, the root menu of DVD is displayed.

• If you press TITLE, the menu of the current title is displayed.

Press ◄ ► ▼ ▲ to select the preferred item.

Press SELECT

The selected item is now executed.

For your convenience:

• You can also use **number** keys to select a DVD menu item. The player will automatically execute the item. To enter an item number which is more than 1 digit, press **+10** key and then enter the item number.

NOTE:

• Some DVDs may not contain root and/or title menus.

• To resume the playback, select PLAY item in DVD menu.

VIDEO CD PLAYBACK

Preparations

• Press on the power button of your audio system if the player has been connected to an audio system.

Basic Play

1. Press on the standby button

2. Press OPEN/CLOSE to open the disc tray.

3. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE.

• **For Video CDs without playback control**:

The disc tray is closed and play commences

• **For Video CDs provided with playback control**:

A menu screen will appear on the screen after a few moments.

MENU PLAY

• This function works only with video CDs with playback control (version 2.0)

Follow the instructions on the menu screen for interactive operations.

• The details differ depending on the disc concerned. Also refer to the instructions accompanying the disc.

After steps 1 to 4 above the menus are displayed on the TV screen

5. Press the number button(s) to select the preferred item.

The player now starts to play the selected item.

NOTE:

• Use **+10** button to enter two-digit-numbers.

• ◄ ► ▼ ▲ arrow buttons are not used for selecting items for video CDs.

What is playback control?

If a video CD has “playback control“ written on the jacket of disc, it means that particular scenes or information can be selected for viewing interactive with TV screen using the menu screen.

NOTE:

• **TITLE** button is dedicated to PBC “playback control” during VCD playback. You can change PBC mode with **TITLE** button.

• For using Repeat Modes you need to switch off PBC manually.

• If you use Search mode PBC automatically switches to OFF.

• PBC ON is default. Whenever you open the tray it will be ON.

When the menu continues onto another screen

After step 4, press **SKIP NEXT** ⏭.

• To return to the previous menu screen press **SKIP PREV** ⏮

Stopping play and returning to the menu screen (when a menu is available on the disc)

Press **STOP**. Play is suspended, and the disc menu screen is displayed.

After operation

When the unit is not in use, remove the disc and press STANDBY to turn off the unit.

NOTE:

• The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press the STOP button to clear the menu display.

• If the disc is placed upside down (and it is a single sided disc), the VFD display on the player will indicate NO DISC.

For your reference:

• When “⃠“ symbol appears while a button is being operated on up-left corner of OSD, it means that the player prohibits the corresponding operation.

Stopping Play

Press stop twice.

For your convenience:

• When **STOP** is pressed once, while the play continues, the unit records the point where the play stopped and if the **PLAY** key is pressed, play resumes from the point where **STOP** key was pressed. Press **PLAY / PAUSE** again, and play will resume from this point. When the tray is opened or the **STOP** is pressed again, the resume function will be cleared.

• To stop the play permanently, press **STOP** twice. When the **STOP** button is pressed for the first time, a message “PRESS PLAY TO CONTINUE” will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** button again or you can press **PLAY/ PAUSE** to continue.

RAPID ADVANCE / RAPID REVERSE

Press SEARCH/SLOW (⏪ Fast reverse or ⏩ Fast forward) on the remote control or Search ⏪ or ⏩ on the main unit during play.

• Normal play is resumed when the **PLAY/PAUSE** button is pressed.

• The speed of advance (⏩ 2x, ⏩ 4x, ⏩ 8x, ⏩ 16x, ⏩ 32x) or reverse (⏪2x, ⏪4x, ⏪8x, ⏪16x, ⏪32x) changes for every press of the ⏩ or ⏪ button.

Note:

No sound will be heard during Rapid advance or Rapid reverse.

SKIPPING AHEAD OR BACK TO CHAPTERS

Skipping ahead

Press SKIP/ FRAME ⏭ (Next) on the remote control or SKIP ⏭ on the main unit during play.

A track is skipped each time the button is pressed.

Skipping back

Press SKIP/ FRAME ⏮ (Previous) on the remote control or SKIP ⏮ on the main unit during play.

When the button is pressed once midway through a track, play returns to the start of previous track. When it is pressed again, a track is skipped.

STILL PICTURE (PAUSE)

Press PLAY/PAUSE once during play.

The screen suspends.

To return to normal play press PLAY/PAUSE again.

FRAME ADVANCE (STEP)

Press PLAY/PAUSE once during play.

The screen suspends.

Press SKIP/ FRAME ⏭ (Next) on the remote control or SKIP ⏭ on the main unit.

The next frame of the movie is displayed.

You can press SKIP/ FRAME ⏭ (Next) for the following frames.

NOTE:

Reverse stepping is not available.

SLOW- MOTION PLAY

Press PLAY/PAUSE once during play.

The screen suspends.

Press SEARCH/SLOW ⏩ on the remote control or Search ⏩ on the main unit

You can increase or decrease the speed of the slow-motion play by pressing SEARCH/SLOW ⏩ or ⏪. There are 4 slow motion modes as ⏵ 1/16, ⏵ 1/8, ⏵ 1/4, ⏵ 1/2.

The speed of slow motion play is displayed on the screen each time you change it.

To return normal play press PLAY/PAUSE again.

NOTE:

Reverse slow motion play is not available.

DIRECT SELECTION OF SCENES

Selecting Scenes by Time

You can view the video CD, starting from any time point you want.

Press SEARCH MODE on the remote control once time during playback.

The time search box is displayed on the screen as DISC GOTO:_: _ _ : _ _

Player goes to entered time of the disc.

Press SEARCH MODE on the remote control two times during playback.

The time search box is displayed on the screen as TRACK GOTO:_: _ _ : _ _

Player goes to entered time of the current track.

Press SEARCH MODE on the remote control three times during playback.

The time search box is displayed on the screen as SELECT TRACK :_ _ / _ _

Player goes to entered track of the disc.

Enter the time using number buttons.

The title is played beginning from the desired time just after you enter the time.

For your convenience:

• If you attempt to enter a number greater than the total time of the current title, the time search box disappears and "⃠" message appears on up-left corner of screen.

• If you give up entering the time simply press RETURN button, and the operation is cancelled.

Accessing tracks using number buttons:

You can play any track you want, just by pressing the corresponding number button.

For the track numbers which are greater than "9" use +10 button. Press this button once and then type the two digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, "⃠" message is displayed on the screen.

REPEAT PLAY

Repeat Viewing

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

• If **"↻All"** is displayed, the whole disc will be played again.

• If "↻ Track" is displayed, the current track will be played again.

Repeating sections between two specific points. (A –B repeat)

Press A-B during play at the point where repeat play is to commence (A).

"↻ A" is displayed on screen.

Press A-B again at the point where repeat play is to be concluded (B).

"↻ AB" is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play

Press **A-B** again. A-B Repeat is disabled.

CONVENIENT FUNCTIONS

Displaying the time information

Press DISPLAY during play.

Each time this button is pressed, a different time information box is displayed on the screen.

• If "Single elapsed" is displayed, the VFD display on the unit shows the elapsed time for the title which is being played

• If "Single remain" is displayed, the VFD display on the unit shows the remaining time for the title which is being played.

• If "Total Elapsed" is displayed, the elapsed time for the disc is being displayed.

• If "Total remain" is displayed the remaining time for the disc is being displayed.

Pressing the DISPLAY key for the fifth time closes display menu screen.

Displaying a scene with a larger and closer view

This 'zoom-in' function enables you to take a closer look at the scene you are viewing.

Press ZOOM during play.

"Zoom On" is displayed on the screen and the picture is now larger. You can change the zooming ratio by pressing ZOOM button more

than once. There are 2, 3, 4, 1/2, 1/3 and 1/4 zoom

modes.

NOTE:

You can move in the picture ie, change the zoomed location by using the ◄ ► ▼ ▲ arrow keys. This is valid for zoom-in only.

To return to normal play

After zoom ratio is 1/4x, press ZOOM again. The picture is now in its normal size.

AUDIO CD PLAYBACK

Preparations

• Press on the power button of your audio system if the player has been connected to an audio system.

Basic Play

1. Press on the standby button

2. Press OPEN/CLOSE to open the disc tray.

3. Place a disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE.

Play is commenced.

After operation

When the unit is not in use, remove the disc and press STANDBY to turn the unit off.

NOTE:

If the disc is placed upside down (and it is a single sided disc), the VFD display on the player will indicate NO DISC.

For your reference:

• When "⃠" symbol appears while a button is being operated, it means that the player prohibits the corresponding operation.

Stopping Play

Press stop twice.

For your convenience:

• When **STOP** is pressed once, while the play continues, the unit records the point where the play stopped and if the **PLAY** key is pressed, play resumes from the point where **STOP** key was pressed. Press **PLAY / PAUSE** again, and play will resume from this point. When the tray is opened or the **STOP** is pressed again, the RESUME function will be cleared.

• To stop the play permanently, press **STOP** twice. When the **STOP** button is pressed for the first time, a message "PRESS SELECT TO CONTINUE" will appear on the screen to remind you if you want to continue the play. To stop the play, press the **STOP** button again or you can press **PLAY/ PAUSE** to continue.

RAPID ADVANCE / RAPID REVERSE

Press SEARCH/SLOW (⏪ Fast reverse or ⏩ Fast forward) on the remote control or Search ⏩ or ⏪ on the main unit during play.

• The speed of advance (⏩ 2x, ⏩ 4x, ⏩ 8x, ⏩ 16x, ⏩ 32x) or reverse (⏪ 2x, ⏪ 4x, ⏪ 8x, ⏪ 16x, ⏪ 32x)

changes for every press of the ⏩ or ⏪ button. You can also resume normal play using these buttons.

• Normal play is resumed when the SELECT button is pressed or PLAY/PAUSE button is pressed again.

NOTE:

No sound will be heard during rapid advance or rapid reverse.

Skipping Ahead or Back to Tracks

Skipping ahead

Press SKIP/ FRAME ⏭ (Next) on the remote control or SKIP ⏭ on the main unit during play.

A track is skipped each time the button is pressed.

Skipping back

Press SKIP/ FRAME ⏮ (Previous) on the remote control or SKIP ⏮ on the main unit during play.

When it is pressed again, a track is skipped.

PAUSE

Press PLAY/PAUSE once during play.

The play suspends.

To return to normal play press PLAY/PAUSE again.

DIRECT SELECTION OF TRACKS

Selecting by Time

You can play the audio CD starting from any time point you want.

Press SEARCH MODE on the remote control once time during playback.

The time search box is displayed on the screen as DISC GOTO:_: _ _ : _ _

Player goes to entered time of the disc.

Press SEARCH MODE on the remote control two times during playback.

The time search box is displayed on the screen as TRACK GOTO:_: _ _ : _ _

Player goes to entered time of the current track.

Press SEARCH MODE on the remote control three times during playback.

The time search box is displayed on the screen as SELECT TRACK :_ _ / _ _

Player goes to entered track of the disc.

Enter the time using number buttons.

The track is played beginning from the desired time just after you enter the time.

For your convenience:

• If you attempt to enter a number greater than the total time of the current track, the time search box disappears and "⃠" symbol is displayed.

• If you give up entering the time simply press RETURN button, and the operation is cancelled.

Accessing tracks using number buttons

You can play any track you want, just by pressing the corresponding number button.

For the track numbers which are greater than "9" use +10 button. Press this button once and then type the two-digit track number.

If you attempt to enter a number greater than the total number of tracks on disc, "⃠" symbol is displayed on screen.

REPEAT PLAY

Press REPEAT during play.

Each time this button is pressed, a different repeat box is displayed on the screen.

• If **"↻"** Track" is displayed, the current track will be played again.

• If **"↻"** All" is displayed, the whole disc will be played again.

• If "SCAN" is displayed, first 12 seconds of all tracks on the disc are played sequentially.

• If "RANDOM" is displayed, tracks on the disc are played randomly and continously.

NOTE:

If the play list is active, the playlist is repeated instead of the whole disc in "Repeat All" case.

Repeating sections between two specific points (A –B repeat).

Press A-B during play at the point where repeat play is to commence (A).

"↻ A**"** is displayed.

Press A-B again at the point where repeat play is to be concluded (B).

"↻ AB**"** is displayed and the repeat-play of the selection between points A and B starts.

To return to normal play

Press **A-B** again. A-B Repeat is disabled.

CONVENIENT FUNCTIONS

Displaying the time information

Press DISPLAY during play.

Each time this button is pressed, an information box is displayed on TV screen to indicate the status of the time displayed on the VFD display.

• If "Time Display: Single elapsed" is displayed, the VFD display on the unit shows the elapsed time for the track which is being played.

• If "Time Display: Single remain" is displayed, the VFD display on the unit shows the remaining time for the track which is being played.

• If "Time Display: Total elapsed" is displayed, the VFD display on the unit shows the elapsed time for the disc which is being played.

• If "Time Display: Total remain" is displayed, the VFD display on the unit shows the remaining time for the disc which is being played.

Program Function

Press PROGRAM to select program mode

Program list appears.

Enter numbers of tracks that you want to add to program list.

Select "NEXT" to go to the next program page.

Select "PREV" to go to the previous program page.

Select "START" to start program mode.

Screen is cleared and files in the program list are played sequentially.

Press PROGRAM to see the program list.

Select "STOP" to stop program mode.

Select "EXIT" to stop program mode.

For your convenience:

• You can remove the last track of the playlist by pressing the **C** button.

• You can clear screen when the program list is displayed on screen by pressing PROGRAM button.

• The program remains even after the Program Play ends

• The program is cancelled when:

- The disc tray is opened or closed

- The power is turned off.

CD MENU

To see the directory structure(menu) of JPEG/MP3 CDs you should set CD MENU option to WITH MENU in setup page.

If CD MENU option is set to NO MENU, MP3 or JPEG content is automatically played without displaying menu.

BASIC PLAY

1. Press on the STANDBY

2. Press OPEN/CLOSE to open the disc tray

3. Place a CD-R disc onto the tray

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

4. Press OPEN/CLOSE to close the disc tray

DISC LOADING message appears on screen. Please wait for a moment.

CD MENU appears. Directories are on the left part and files in the selected directory are on the right part.

5. Press UP/DOWN to select files

In the stop mode or while playing MP3 the user can navigate in the current directory.

6. Press SELECT,LEFT,RIGHT to switch between directories & files

On the right part:

Press LEFT to switch to directories.

On the left part :

Press RIGHT to switch to files. Selected directory content is displayed on the left after reading directory.

NOTE:

you can use ⏭ and ⏮ buttons for page up / down in file list.

7. Press SELECT on a file to play

MP3 File :

Selected MP3 starts to play.

Elapsed or Remaining Time is displayed according to DISPLAY Mode.

JPEG File :

Selected JPEG is displayed in full screen.

Slide Show starts automatically.

PAUSE

Press PLAY/PAUSE once during play.

The play suspends. PAUSE message appears on screen.

To return to normal play press PLAY/PAUSE again.

STOPPING PLAY

Press STOP

The play is stopped.

Rapid Advance / Rapid Reverse

Only for MP3 :

Press ⏪ / ⏩ during play to decrease/increase play speed.

⏪ 32x, ⏪ 16x, ⏪ 8x, ⏪ 4x, ⏪ 2x, PLAY, ⏩ 2x, ⏩ 4x, ⏩ 8x, ⏩ 16x, ⏩ 32x are the play speed modes.

SKIPPING AHEAD OR BACK TO TRACKS

Press ⏮ / ⏭ during play to jump to the previous/next file.

Next file in the current directory will be played.

IMAGE TRANSFORMATION

Only for JPEG :

Press PLAY to start slide show

There are four modes of transformation:

• Invert

• Mirror

• Left

• Right

These operations are allowed only when a picture is being displayed normally, and will be cancelled automatically when a new picture is displayed. The arrow keys are used to select different transformation modes.

Press UP to invert/normal

Press DOWN to mirror/normal

Press LEFT to turn left

Press RIGHT to turn right

ZOOM

Only for JPEG :

Press PLAY to start slide show

It is provided both ZOOM in/out and Zoom pan functions for JPEG pictures.

Press ZOOM to turn on/off this function

When this mode is on, any picture will be displayed at the last ratio selected by the user.

A message will indicate the current ratio on screen.

If zoom mode is on,

Press ⏩ / ⏪ to control the ratio of zoom in/out.

The zoom ratios are %50 and %75 for zoom out and %100, %125, %150 and %200 for zoom in. (The order is: %50, %75, %100, %125, %150, %200)

With ZOOM mode off, a picture is scaled to fit the whole screen.

NOTE:

• During ZOOM function, slideshow transition and image transformation are disabled.

DIGEST MODE

Only for JPEG :

Press PLAY to start slide show

press **STOP** button during JPEG slide show. Unit goes into digest mode. 12 pictures are displayed on screen.

Using the arrow keys select menu icon on the screen. Press select button.

Remote key Function screen appears. You can see help information for digest mode.

Program key

Each time you press program key transition effect is changed. You can select one of the following transition effects: Wipe top, Wipe bottom, Wipe left, Wipe right, Diagonal wipe left top, Diagonal wipe right top, Diagonal wipe left bottom, Diagonal wipe right bottom, Extend form center H, Extend from center V, Compress to center H, Compress to center V, Window H, Window V, Wipe from edge to center, Random, None.

Press "Skip frame ⏭ (next) key".

Next 12 pictures are displayed.

Press "Skip frame ⏮ (previous) key".

Previous 12 pictures are displayed.

Press Menu key to cancel the digest mode.

Search Mode

With SEARCH MODE key you can select the files in the current folder or you can perform time search in currently playing MP3 file.

Repeat Modes

In CD MENU it is displayed at the bottom.

Display Function

Press **DISPLAY** to change displayed time mode

There are two time modes :

• Single Elapsed

• Single Remain

Time is displayed only during MP3 playback.

Play Modes

1. Press **STOP.**

2. Press **RIGHT** to go to Play Modes menu.

3. Press **UP/DOWN** to change play mode.

The options available are:

REPEAT ONE:

If this option is chosen, the selected track will be repeated continuously.

REPEAT FOLDER:

If this option is chosen, the selected folder will be repeated continuously.

DISC:

When this Play mode is selected, the disc will be played once.

DISC REPEAT:

When this Play mode is selected, the disc will be played continuously.

DISC SCAN:

When this Play mode is selected, the first 12 seconds of all tracks disc will be played.

FOLDER:

When this Play mode is selected, the current folder will be played once.

PROGRAM FUNCTION

Press PROGRAM to select program mode in stop mode

PROGRAM LIST Message appears.

Press UP/DOWN keys to select files in the disc.

Press LEFT/RIGHT to change column.

Press SELECT to add selected file into the program list.

Choose any file from the program list and use PLAY or SELECT keys to start the program.

Files in the program list are played sequentially.

If a MP3 file is played;

Press STOP.

If a JPEG file is displayed;

Press MENU.

Press PROGRAM to quit program mode.

"NORMAL MODE" message appears.

For your convenience:

• You can remove the last track of the playlist by pressing the **C** button.

• The program remains even after the Program Play ends

• The program is cancelled when:

- The disc tray is opened or closed

- The power is turned off.

USING SETUP MENU

Press SETUP button on the remote control.

The setup menu-main page appears. This is the menu, where you can change the device's settings.

USING MAIN PAGE

Select items using ▼ ▲ v up/down arrow buttons.

When selected, the item will be highlighted.

Press SELECT to enter the submenu for highlighted item.

The submenu for the selected item appears on the screen.

Note: To close the setup menu, select EXIT SETUP and press SELECT, or press SETUP.

USING SUB MENUS

Once you enter any submenu,

Use ▼ ▲ up/down arrow buttons to move the highlighted position up and down.

Use ◀ ▶ left/right arrow buttons to switch between left and right menus.

Press SELECT to choose the highlighted option on the right menu.

• Some items on Setup Menu will only be available when the player is not playing a disc.

In Play or (Pre-Stop) mode, some pages and some items can not be accessed. On the MAIN page, you can not access VIDEO SETUP and PARENTAL SETUP pages in RESUME mode.

Note:

• In any submenu, to return to main page, select MAIN PAGE and press **SELECT** button.

• To close the setup menu, press **SETUP.**

MENU ITEMS

VIDEO SETUP

• VIDEO SETUP page will not be available if the player is Play or (Pre-Stop) mode.

TV DISPLAY

The aspect ratio of the picture provided by the DVD player can be varied in line with the features available on the TV in use.

The options available are:

Normal/PS Pan & Scan (4x3)

Allows the movie to fill the entire screen of your TV, but not the right and left edges.

Normal/LB Letterbox (4x3)

Allows you to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen.

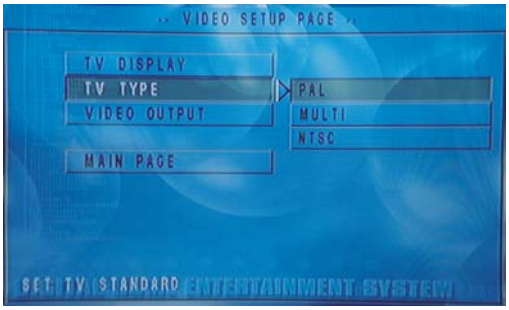
Wide Widescreen (16x9)

Choose this setting if your DVD player is connected to a widescreen TV.

Please Note:

Depending on the format of the DVD disc, e.g. 2.35:1 the picture may still have black lines above and below the picture.

TV TYPE



The video standard of the DVD player output can be selected from 'MULTI', 'NTSC' or 'PAL'.

If 'MULTI' is selected, the output standard will be either NTSC or PAL depending on the DVD being played.

If 'PAL' is selected, the video output will be converted to PAL standard irrespective of disc standard.

- TVTYPE settings will be effective in DVB mode.

VIDEO OUTPUT

The video output of the DVD player can be selected as 'S-VIDEO' or 'RGB'.

If 'S-VIDEO' is selected, RGB output via scart will be disabled, only CVBS will be active via Scart. S-Video output will be active via MiniDIN connector. After switching to S-Video, TV should be switched to S-Video input with TV remote control. If "S-Video" is selected in order to disable RGB via Scart and user prefers to watch CVBS via scart, TV should be switched to Scart input with TV remote control.

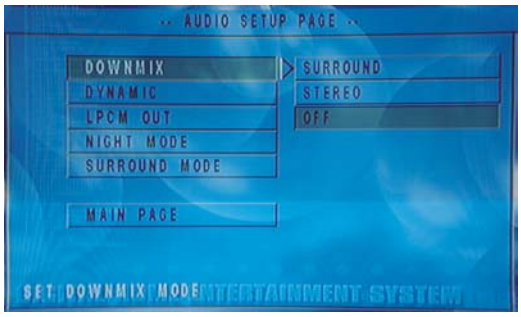
If 'RGB' is selected, S-Video output will be disabled. Scart output will be CVBS + RGB.

- VIDEO OUTPUT settings are effective in DVD mode only.

* TV-Type and Video Output settings are effective in DVD mode only.

AUDIO SETUP

DOWNMIX MODE



This mode allows the DVD player analog audio outputs to be matched to the features available on the TV in use. Analog audio outputs can be selected as

SURROUND: Surround sound output.

STEREO: Two channels stereo.

Use this option if you have a stereo TV or a stereo HI-FI system.

OFF: Downmix mode off. Multichannel analog audio is available.

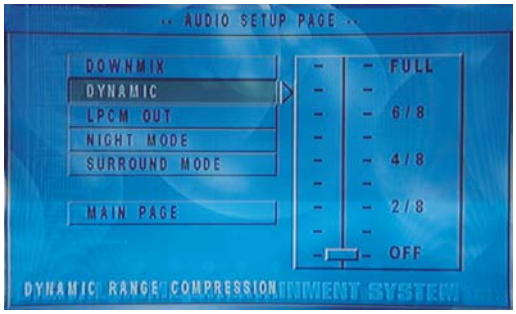
Do not use this option if your DVD player is not connected to a multichannel TV or multichannel AV receiver. It is particularly important not to enable speakers, which are not present. Otherwise serious sound quality problems may occur..

NOTE:

If downmix mode is enabled, that is, one of SURROUND, STEREO or V SURR options are selected, SPEAKER page in setup menu will be disabled since this page contains speaker settings related with multi-channel audio out. If you disable DOWNMIX mode, speaker page will be activated again.

DYNAMIC (DYNAMIC RANGE COMPRESSION)

Boosts frequency response. This item can be selected between “OFF” and “FULL”.



LPCM OUTPUT

This item can be selected as “LPCM 96K” or “LPCM 48K”.

NIGHT MODE

This item allows you to enable/disable the night time listening mode.

In night time listening mode high volume levels are limited.

SURROUND MODE

This mode allows to activate the speakers beyond the left/right with two channel input.

Matrix: Six channel output with surround effect.

PL2 Music: Dolby Prologic II music mode.

PL2 Movie: Dolby Prologic II movie mode.

Off: Surround mode off.

NOTE:

Matrix and Pro Logic modes can be enabled only if the downmix mode is off.

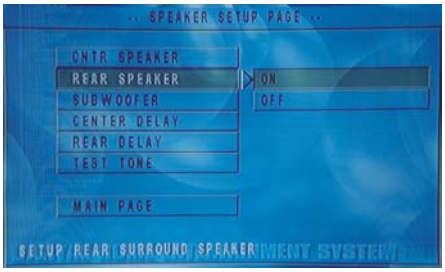
SPEAKER SETUP

CENTER

This item allows you to enable/disable the CENTER speaker.

REAR

This item allows you to enable/disable the REAR (Left surround, right surround) speakers.

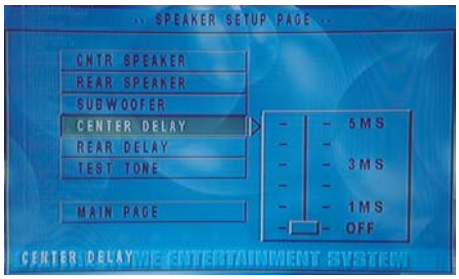


SUBWOOFER

You can enable/disable the subwoofer by changing the option to ON/OFF.

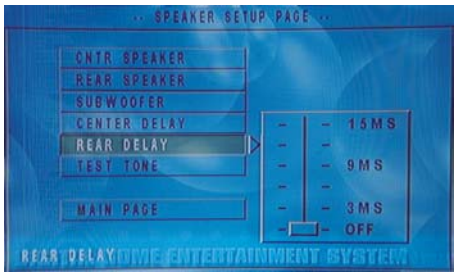
CENTER DELAY

Center speaker surround time delay. You can adjust the delay times or you can disable delay for center speaker.



REAR DELAY

You can adjust the delays of rear speakers or you can disable delay for rear speakers.



TEST TONE

You can test all your speakers using test tone function. A noise signal will be sent to all speakers one by one.

LANGUAGE SETUP

AUDIO

You can select the default audio language if supported by the DVD disc.

DISC MENU

You can select the DVD's disc menu language among these languages. Disc menu appears in the selected language, if supported by the DVD disc.

SUBTITLE

You can select the default subtitle language if supported by the DVD disc.

ATTENTION

LANGUAGE SETUP SETINGS WILL NOT BE EFFECTIVE IN DVB MODE.

PARENTAL SETUP

Playing some DVDs can be limited depending on the age of users. The “Parental Control” function allows playback limitation level to be set by the parent.

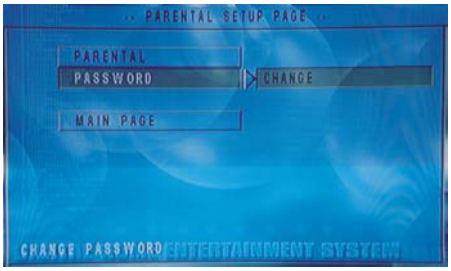
PARENTAL (PARENTAL LEVEL)

Parental Level can be adjusted to one of the eight levels. Level “8 ADULT” adjustment let you watch all of the DVD titles ignoring the DVD disc’s parental level. You can watch the DVD discs, which has the same or lower parental level than the player’s level only.

PASSWORD

Password to change the parental level can be set by using this option. Factory preset of the password is “0000”

You have to enter XXXX digital password every time you want to change the parental level. If you forget your password please contact technical service.



CHANGE PASSWORD

Using this item you can change the current password.

To change the password you will be prompted to enter your old password. After you have entered your old password, you can now enter the new 4-digit password.

Entering the new password once is not enough, it should also be confirmed. Confirm pwd box is for confirming new password.

Press select to move to confirm password box.

• You can use **C** key to delete the incorrect entry.

PREFERENCES

ANGLE MARK

This option allows you to turn on /off the angle mark on the screen, which is displayed to indicate that a multi angle scene has started. It also shows which angle you are currently watching.

STANDBY

Standby activation feature can be disabled or standby activation time can be adjusted using this option. If one of the time options is selected, standby is activated, whenever no key is pressed for the selected time duration in stop mode.

CD MENU

This option allows you to enable or disable the CD MENU which is used for playing MP3 or JPEG CDs.

DEFAULT

If you choose **RESET** and press **SELECT**, the factory-presets are loaded. Parental level and parental password does not change.

TRANSPARENCY

Using this option one of four transparency levels can be selected for the on screen display.

DVB-T

PREPARATION 1

SWITCHING ON

Turn on your TV set and select the SCART input (with the AV key, or similar, on thetelevision remote control). Turn on the mains supply to the DVB - T receiver (the indicator on the front of the receiver will glow red) and press the [STANDBY] key on the DVB - T remote control handset. After exiting standby the system turns on DVB mode.

If you do not see the receiver's menu on the television screen, refer to the Troubleshooting .

TUNING IN

Because this is the first time that the receiver has been used, there are no channels stored in the receiver's memory and the Autosearch selection menu is displayed on the screen.

Using the [LEFT] or [RIGHT] keys on the remote control, make sure that the YES button is highlighted in yellow, and press the [SELECT] key to start the automatic search.

The DVB - T receiver will automatically tune to the UHF transmission channels 21 to 68 looking for digital terrestrial TV broadcasts and displaying the names of channels found. This process will take about five minutes.

When the search is finished, the first channel of the channel list and the information banner is displayed you can now watch digital terrestrial television, selecting the channel you require as described in the next section.

HINT

Depending on the reception conditions in your particular area, you may find that the list of channels found includes one or more repeated names. This is because the receiver may detect and store some channels, including those it cannot receive clearly, from adjacent areas alongside the strong channels from a transmitter nearby. This is not a problem and the weaker channels can be deleted from the receiver later, as described in - ADVANCED OPERATION - Section Editing the channel list.

If no digital terrestrial television broadcasts are found the receiver will display a message:

You should then refer to the Troubleshooter Guide in Appendix E to establish the cause of the problem.

When you have finished watching digital terrestrial TV, you may wish to switch the receiver to standby to save power - although the DVB - T receiver can remain powered up continuously, even when the television is turned off, without harm to the television or itself. The receiver is returned to standby by pressing the [STANDBY] key on the remote control handset.

EVERYDAY OPERATION 2

Many of the menu screens displayed by the receiver have information texts about the keys functionalities, at the base of the screen. In addition, many screens have further help available which is displayed when the [i] key is pressed, as prompted at the bottom right of the screen.

CHANGING CHANNELS

You can select the channel you wish to watch in one of four ways - stepping through the channel list, selection by number, from the on-screen channel list, and using the electronic programme guide (EPG).

To move through the channel list, press the [P+] or [P-] keys on the remote control. Pressing the [P+] key will select the next channel in the channel list. Pressing the [P-] key will select the previous channel in the channel list.

Pressing the [P+] key while the last channel in the list is being viewed will select the first channel. Similarly, pressing the [P-] key while the first channel is displayed will select the last channel in the channel list.

You can also select the required channel using its channel list number. Channel numbers are entered using the numberic keys on the remote control handset and can be up to three digits long.

Hint

The channel list numbers are assigned by the broadcasters. Because not all channels are broadcast free-to-air and stored by the receiver, the channel list numbers do not run continuously. The fifteenth channel in the list, for example, may not be channel number 15 but channel number 17.

When you press a number key on the remote control, a small box appears in the top left of the screen to show the entered number. After each digit is entered, the receiver will wait up to two seconds for the next digit to be pressed until either three digits have been entered or you do not press a digit in time. The channel corresponding to the entered number in the box will then be selected.

Hint

If you enter a number which does not correspond to a stored channel, the next valid channel number is selected instead. If you enter a number greater than the highest numbered channel in the channel list, the receiver will select the last channel in the list.

Information Banner

Whenever you change channel, using the [P+] and [P-] keys or the number keys, the receiver displays the channel picture along with an information banner at the bottom of the screen. This will remain on the screen for approximately three seconds. The information banner can also be displayed at any time while watching TV by pressing the [i] key on the remote control. Pressing the [i] key again removes the banner.

Not all channels broadcast the programme data. If the name and times of the programme is not available then 'Not available' is displayed in the information banner.

The information banner gives a number of facts on the channel selected and the programmes on it. The name of the channel is displayed, along with its channel list number and an indication of the strength of the signal received on this tuning channel.

The name and the start and finish time of the programme currently showing on the selected channel are given, and the current time.

Icons are also displayed in the information banner and if this channel is a favourite channel (see - ADVANCED OPERATION - Section Favourite Channels).

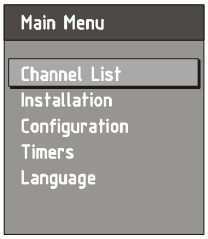
favourite channel

If the channel selected is locked (see - ADVANCED OPERATION Section - Channel Protection), you must enter the correct four digit code to view the channel.

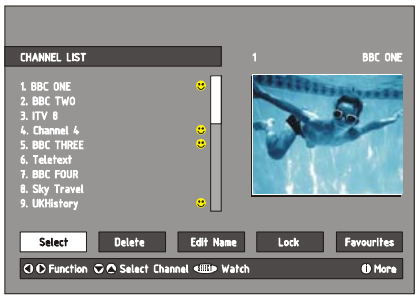
Alternatively, the [P+] or [P-] keys are used to move to another, unlocked channel.

CHANNEL LIST

You can also select the required channel directly from the on-screen channel list. This is displayed using the DVB - T receiver's Main Menu. First bring up the menu with the [MENU] key on the remote control handset.



Using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted in yellow and press the [SELECT] key, to display the channel list.



Here, you can preview any channel stored by the receiver before viewing it full screen. The complete list of channels is displayed in pages of 10 channels at a time, with their channel list number and a favourite channel icon if appropriate (see Section 3 - ADVANCED OPERATION - Favourite Channels). The name and a quarter-screen image of the channel last viewed is displayed in the top right of the screen.

Using the [UP] or [DOWN] keys, the highlight is moved through the list to the channel required. The [PAGE UP] and [PAGE DOWN] keys can also be used to move forward or back a complete page (ten channels) at a time. Pressing [SELECT] now changes the quarter-screen display to show the highlighted channel.

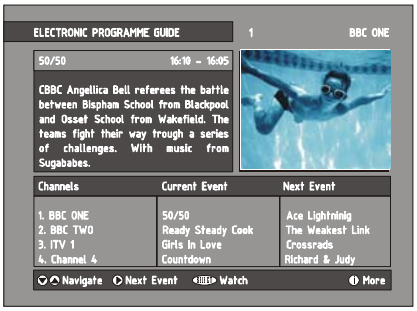
Hint

From the Channel List screen, it is possible to edit the channel list, including changing the name of stored channels or deleting them. Editing the list is covered in - ADVANCED OPERATION - Section Editing The Channel List. When using the Channel List to select channels, use the [LEFT] or [RIGHT] keys to ensure that the highlighted button at the bottom of the screen is SELECT, so no editing functions are accidentally begun.

When you leave the Channel List screen, by pressing [MENU] the channel showing on the quarter screen is selected for normal viewing on the whole screen.

ELECTRONIC PROGRAMME GUIDE

The fourth way of selecting a channel is with the electronic programme guide, or EPG. The EPG is accessed by pressing the Guide key, [GUIDE]. Like the Channel List, the EPG screen displays a list of the stored channels (in pages of five channels) along with information on what programmes are being broadcast.



Current Programme

The channels are listed at the bottom of the screen, each with the 'current event' (the name of the programme showing at that time) and the 'next event' (the following programme). When the EPG screen is first displayed, the channel last watched is highlighted in the list of channels. A quarter-screen image of this channel is displayed at the top right of the screen along with the channel name and channel list number.

Details of the current programme on that channel (the name of the programme and, typically, a synopsis with details of the stars involved, the teams playing, or similar information) along with the start and finish times are displayed at the top left inside the dark blue text window.

Hint

If the channel you have been viewing is a digital teletext channel then no picture will appear in the quarter-screen window.

Moving the highlight through the list of channels using the [UP] and [DOWN] keys will change the programme details in the text window to reflect the channel highlighted. The quarter-screen window continues to show the channel last watched, so you can stay watching a programme while at the same time browse the details of what's on, on other channels.

You may then select the highlighted channel for viewing on the quarter-screen window by pressing the [SELECT] key.

You can leave the EPG screen, to enjoy normal full-screen viewing of the channel in the quarter-screen window by pressing the [GUIDE] key again, or the [MENU] key.

Hint

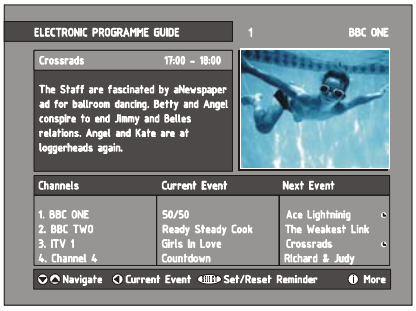
Not all channels broadcast all the programme information data. Some channels do not provide the current and next event data and/or the programme details. In this case the programme names and/or the details are not displayed. This is not a fault with your receiver.

Next Programme

While the EPG screen is displayed, pressing the [RIGHT] key highlights, in dark blue, the next event name in the list of channels and displays the highlighted channel's programme details for the next event (the programme following the current programme) in the text window. As before, you can browse through the list, checking the programmes coming up next on all the channels.

Hint

If the programme details text for the current or next event is too long to fit into the text window on the EPG screen, a scroll bar appears on the right hand side of the window and the text can be scrolled up or down using the [YELLOW] and [BLUE] keys on the remote control. Using [PAGE UP] or [PAGE DOWN] keys will display the next/previous 5 channels in the list.



Pressing the [SELECT] key while the next event details are displayed will set a reminder to watch that programme. See - ADVANCED OPERATION - Section Programme Reminders And Timers.

You can return to the current programme display by pressing the [LEFT] key or to normal television viewing (to watch the channel last selected in the EPG screen) by pressing the [GUIDE] key again, or the [MENU] key.

Audio Language (Only in DVB mode)

Some programmes are broadcast in two or more languages simultaneously. The language heard can be selected from the Language Menu. Press [MENU] to display the Main Menu and use the [UP] or [DOWN] keys to highlight the Language line and press [SELECT]. Use the [UP] or [DOWN] keys to highlight the soundtrack language required and press [SELECT]. Normal viewing, with the required language soundtrack, can be resumed by pressing the [MENU] key.

If the programme has no alternative language soundtrack broadcast, the Language Menu will not be available, but a message, 'No Multi Language Available' is displayed briefly.

Soundtrack Language setting will be effective only in DVB mode.

DIGITAL TELETEXT

Many digital terrestrial television channels not only broadcast pictures and sound for programmes but also pages of information on the programmes, the weather, news and many other topics. This digital teletext can be displayed by the DVB - T receiver.

Some channels are entirely given over to digital teletext and carry no normal TV programme at all. These dedicated digital teletext channels will not give a quarter-screen image in the EPG or the Channel List screen. When such a channel is selected, after a brief pause, they will usually display the opening page of information automatically.

Other channels have digital teletext pages broadcast alongside the television programme and often include a reduced-size broadcast picture within digital teletext pages. These usually require the [TEXT] button to be pressed to activate the digital teletext pages.

In both cases, moving through the different pages of information is accomplished in a variety of ways, dependent on the individual broadcasters, but including use of the [UP], [DOWN], [LEFT], [RIGHT] and [SELECT] keys to select items from on-screen menus, and the coloured keys to jump directly to particular pages.

You can exit any digital teletext channel by changing channel in any of the normal ways. You can leave the digital teletext function of a combined digital teletext/programme channel, to return to normal television viewing of that channel, by pressing the [TEXT] key.

Hint

Calling for the information banner or any menu on-screen stops the receiver from displaying the digital teletext pages and they are temporarily replaced by a blank picture while the banner or menu is displayed.. Digital teletext cannot be accessed when the Subtitles are enabled (See Section 2 - ADVANCED OPERATION - Configuring Your Receiver.

WIDESCREEN

TV sets are available with screens of the standard (4:3) format and widescreen (16:9) format.

Digital terrestrial television broadcasts are also made in both standard and widescreen formats. In particular, films and dramas tend to be broadcast in widescreen format to closer emulate the cinema experience, but even some news bulletins are widescreen. To help get the most from both TV set and programme when a widescreen film is watched on a standard TV, or a standard broadcast is viewed on a widescreen set, the DVB - T receiver includes the [WIDE] key.

So long as the receiver has been correctly set up for the TV set connected, a widescreen programme will always be displayed correctly on a widescreen set, and a standard format programme will correctly fill the screen of a standard format TV.

With a widescreen TV set displaying a standard format programme, the [WIDE] key switches between displaying the picture with black bars down the sides, and enlarging the picture so that it fills the whole width of the screen but the top and bottom are cropped off.

With a standard format TV displaying a widescreen programme, the [WIDE] key switches between displaying the picture with black bars at the top and bottom of the screen, and filling the whole height of the screen but cropping the sides off according to instructions broadcast with the programme (called 'pan and scan').

The effect of the [WIDE] key on the picture display is cancelled by pressing [WIDE] again. (Only for DVB)

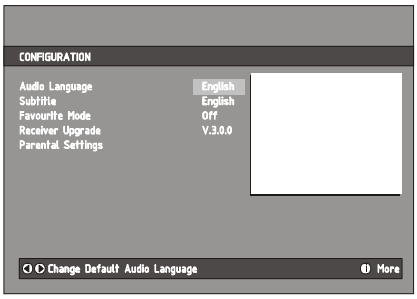
Subtitle

Subtitle key Shows/hides subtitles of channel. When the subtitle key is pressed, subtitle ON/OFF message is displayed.

ADVANCED OPERATION 3

CONFIGURING YOUR RECEIVER

Many aspects of your DVB - T receiver can be set up to reflect your circumstances and preferences. The Configuration menu screen is accessed from the Main Menu. Press the [MENU] key to display the Main Menu and the [DOWN] key twice to highlight Configuration, then press [SELECT] to display the Configuration menu screen.



The various configuration functions are displayed in a list, along with a quarter-screen image of the currently selected channel. You can select a function by highlighting the corresponding menu line with the [UP] or [DOWN] keys. There are five configuration functions.

Audio Language

Digital terrestrial television channels can broadcast simultaneous soundtracks in more than one language. This function selects which language soundtrack you will hear when switching to a channel broadcasting with multiple soundtracks. See also Section 2 - EVERYDAY OPERATION - Audio Control.

Highlight the Audio Language line in the Configuration menu and use the [LEFT] or [RIGHT] keys to cycle through the language options.

Return No Menu to normal TV viewing by pressing the [MENU] key.

SUBTITLE (Only for DVB)

Digital terrestrial television channels can be broadcast with subtitles displayed on-screen for the hard-of-hearing. This function selects the desired subtitle language and enables the automatic display of subtitles whenever subtitle information is broadcast.

Highlight the Subtitle line in the Configuration menu and use the [LEFT] or [RIGHT] keys to cycle through the disable and language options.

Return NO MENU to normal TV viewing by pressing the [MENU] key.

- Audio and subtitle sittings set in DVB mode are not effective in DVD mode.

FAVOURITE MODE

This function enables or disables the favourite channel list mode.

RECEIVER UPGRADE

Over Air Download (OAD):

1. Press Menu button and using the up / down buttons to choose Configuration and press the OK button,

2. Use the up and down buttons to choose "RECEIVER UPGRADE" and press OK button.

3. Using left / right buttons change function from Enable to Disable and press OK.

OR

4. To upgrade receiver manualy use down button and select “SEARCH FOR NEW VERSION”.

5. If there is a new software on air it upgrades receiver.

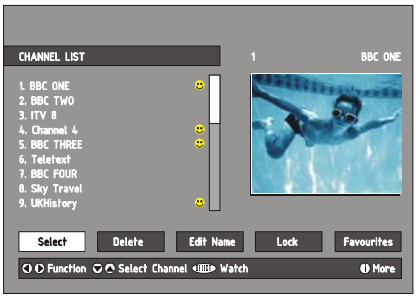
PARENTAL SETTINGS

This function enables or disables the menu protection system and allows the PIN code to be changed. See 3 - ADVANCED OPERATION - Channel And Menu Protection.

EDITING THE CHANNEL LIST

The digital terrestrial television channels found by the receiver when first installed are storedin its memory as a channel list. This list can be altered and amended to remove unwanted channels and to suit your own preferences.

First bring up the Main Menu with the [MENU] key on the remote control handset. Then, using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted in yellow and press the [SELECT] key, to display the Channel List.



The Channel List screen displays the list of channels in the receiver's memory, with a quarter-screen image window showing the selected channel, and can be used to change channels for viewing, delete channels from the memory, edit the name of the channel as it appears in the list and on-screen, lock a channel against viewing by younger members of the family, and set up favourite channels.

Channel List functions are carried out on one channel at a time. The channel to be affected is first highlighted in the list using the [UP] or [DOWN] keys. You can move faster through the list using the [PAGE UP] or [PAGE DOWN] keys to move up or down a complete page of 10 channels in one jump.

SELECT

This function selects a channel for viewing and is an alternative to using the [P+] and [P-] keys, channel number or EPG. Highlight the channel to be viewed, highlight the SELECT button at the base of the screen using the [LEFT] or [RIGHT] keys and press [SELECT]. The highlighted channel now appears in the image window and you can leave the Channel List to view the channel by pressing [MENU].

DELETE

The initial installation of the DVB - T receiver can produce duplicate entries in the channel list from transmitters operating at different frequencies in adjacent areas, and you may wish to delete these duplicate entries from the list. In addition, other channels which you do not want in the list.

Highlight the channel to be deleted, highlight the DELETE button at the base of the screen using the [LEFT] or [RIGHT] keys, and press [SELECT]. The highlighted channel is deleted from the list.

You can now perform further editing on the channel list, or return to normal broadcast viewing by pressing the [MENU] key.

EDIT NAME

The channel names which appear in the channel list and the information banner are assigned by the broadcasters and some longer names are abbreviated to become unrecognisable. You can edit the names to suit your preferences with the Edit Name function.

Highlight the channel to be renamed, highlight the EDIT NAME button at the base of the screen using the [LEFT] or [RIGHT] keys, and press [SELECT]. The highlighted channel name appears on the right of the screen with the first character highlighted by a cursor. Any of the 15 characters that make up a channel name can be highlighted using the [LEFT] or [RIGHT] keys and the highlighted character changed by pressing the [UP] or [DOWN] keys to cycle through the alphabet, numbers and other characters available.

When the required changes have been made, pressing [SELECT] stores the new name and returns to the Channel List screen. Alternatively, pressing [MENU] will abandon the name change and return to the previous name.

You can now perform further editing on the channel list, or return to normal broadcast viewing by pressing the [MENU] key.

Using the other two functions of the Channel List menu screen - LOCK and FAVOURITES - is dealt with in the next sections.

Hint

You can also enter a channel name using the number keys on the remote control. Each key represents several letters and pressing a key several times will enter each letter (in both capitals and lower case), and the number, in turn, in the character position marked by the cursor. The zero key enters all the punctuation marks available and a blank space. With practise, this is a very quick means of entering the required letters into the channel name.

CHANNEL AND MENU PROTECTION

CHANNEL LOCK

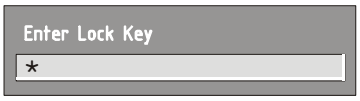
Some channels broadcast material which you do not want younger members of the family to watch. Any channel can be 'locked' so that it cannot be selected for viewing without first a four-digit PIN code being entered. In this way any channel not suitable for younger viewers can be protected.

The channel lock is applied with the Channel List menu. Press the [MENU] key on the remote control handset to display the Main Menu and then, using the [UP] or [DOWN] keys on the remote control, make sure that the first item, Channel List, is highlighted in yellow and press the [SELECT] key.

Highlight the channel to be locked using the [UP] or [DOWN] keys. You can move through the list 10 channels in one jump using [PAGE UP] or [PAGE DOWN]. Now select the LOCK button at the base of the screen with the [LEFT] or [RIGHT] keys and press [SELECT].

A window requesting the PIN code is displayed and the four-digit code should be entered using the number keys on the remote control, followed by the [SELECT] key. A lock icon is then displayed alongside the channel name in the channel list.

You can now leave the Channel List screen and return to normal TV viewing by pressing [MENU]. Any attempt to change channel to the locked channel will now display the same window requesting the PIN code and the channel will only be displayed on entry of the correct code. To remove the lock on a channel, repeat the same process as to lock the channel.



MENU LOCK

Simply locking a channel will not deflect a determined would-be viewer. Re-installing the complete channel list, for example, will bypass the channel lock. However, the menus can be locked out of use too, to prevent this.

Display the Main Menu by pressing the [MENU] key, highlight Configuration, and press [SELECT] to display the Configuration menu screen. Highlight the Parental Settings line of the menu (press [DOWN] five times) and press [SELECT] to display the Parental Settings menu (after the PIN code has been entered). Here the menu lock-out can be set and the PIN code changed.

With the Menu Lock line highlighted, use the [LEFT] or [RIGHT] to cycle the menu lock setting through Disabled, Main Menu and Installation. The Main Menu setting will lock out the complete menu system; the Installation Menu setting locks only the Installation menu (see Section 3 - ADVANCED OPERATION - Re-installation); and the Disabled setting allows free access to any of the menus.

You must return to normal TV viewing by pressing the [MENU] key (three times) to activate the lock. Now any attempt to access the locked menus will display the PIN request window and the menus will only be displayed on entry of the correct PIN code.

FAVOURITE CHANNELS

There will be some channels that you tend to watch more often and some only occasionally. Although some duplicate channels you may want to delete from the channel list, others although not watched frequently, you will not want to do away with altogether. The favourite mode allows the most-watched channels to accessed more easily, leaving the less-watched channels accessible but out of the way.

When the favourite mode is activated, the [P+] and [P-] keys cycle through the favourite channels only and the EPG will list the favourite channels only (other channels can still be accessed by channel list number or from the Channel List menu screen).

Any channel can be a favourite channel and the Channel List menu is used to label those channels you want as favourites.

Display the Channel List menu screen by highlighting Channel List on the Main Menu and pressing [SELECT].

Use the [LEFT] or [RIGHT] keys to highlight the FAVOURITE button at the base of the screen and then, in turn, highlight each channel that is required to be a favourite channel, using the [UP] and [DOWN] keys (and the [PAGE UP] or [PAGE DOWN] keys), and press [SELECT]. A channel selected as a favourite appears in the main channel list with a favourites icon against the channel name.

A channel can have its favourites status removed by repeating this procedure, to remove the icon. Leave the Channel List menu by pressing [MENU].Once the required channels have been marked as favourite channels, the favourite mode can be activated to allow easy access to them. Press the [MENU] key to display the Main Menu, the [DOWN] key twice to highlight Configuration, and press [SELECT] to display the Configuration screen. Press the [DOWN] key four times to highlight the Favourite Mode line and using the [LEFT] or [RIGHT] keys change the setting from Off to On.

When you leave the Configuration menu by pressing [MENU] the favourite mode is activated. Now, changing channel using the [P+] or [P-] keys will switch to only those channels marked as favourites in the channel list. Similarly, the on-screen list in the electronic programme guide contains only the favourite channels.

You can still access all the channels in the channel list by keying in their channel list number or by selection from the Channel List screen. Alternatively you can switch off the favourite mode from the Favourite Mode line of the Configuration menu.

Hint

The favourite mode can only be activated if one or more channels in the channel list are marked as favourites. Similarly, if the favourite status is removed from all the channels in the Channel List, the favourite mode is turned off automatically.

PROGRAMME REMINDERS AND TIMERS

With the greatly extended channel choice that digital terrestrial television brings, it is all too easy to miss a favourite programme. The DVB - T receiver has two facilities built in to help you make sure you catch all the TV shows you want.

PROGRAMME REMINDERS

Programme reminders can be set to signal that a programme is about to start when you are watching another channel. A reminder is set from the Electronic Programme Guide screen.

Press the [GUIDE] key to display the EPG screen and press [RIGHT] to display the next programme details in the text window and highlight the name of the next programme in the list of channels. Press [SELECT] when a programme you want to watch is highlighted and the reminder icon is displayed against that programme's name.

You can exit the EPG screen in the normal way - pressing [GUIDE], [MENU]. Later, shortly before the programme is due to start, the receiver will display a reminder on the screen over the picture of the channel being viewed.

Use the [LEFT] or [RIGHT] keys to highlight the YES or NO buttons as appropriate and press [SELECT]. If you select the YES button, the receiver switches over to the reminder channel.

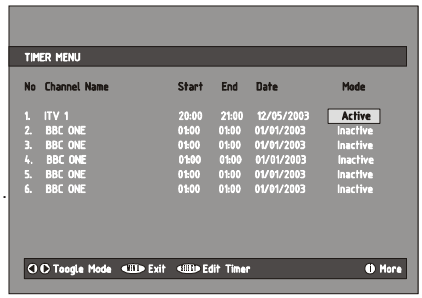
Note: Reminder events are ignored if any timer event is active at that time.

EVENT TIMER

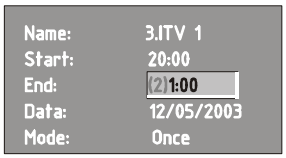
You can also set a timer to switch the receiver to any channel without your intervention. This is intended for making video recordings of programmes when you are out. If a single programme is to be recorded, the receiver can be left switched to the required channel and the timer set on the VCR. However, if two or more programmes on different channels are to be recorded then the DVB - T receiver's own timer is set as well, to select the required channel when it is needed.

Display the Main Menu by pressing the [MENU] key and highlight and select the Timers line to display the Timer menu screen. Up to five separate timer events can be set and each is displayed in the Timer screen, showing the event number, the channel to be selected, the start time, end time, date and the mode - whether that event is active (and

will be acted on) or not


TIMER MENU
No Channel Name Start End Date Mode
1. ITV 1 20:00 21:00 12/05/2003 Active
2. BBC ONE 01:00 01:00 01/01/2003 Inactive
3. BBC ONE 01:00 01:00 01/01/2003 Inactive
4. BBC ONE 01:00 01:00 01/01/2003 Inactive
5. BBC ONE 01:00 01:00 01/01/2003 Inactive
6. BBC ONE 01:00 01:00 01/01/2003 Inactive
Toogle Mode Exit Edit Timer More

To set an event, highlight its mode button using the [UP] or [DOWN] keys and press [SELECT] to display the timer entry window. Here the five settings of channel name, start time, end time, date and frequency mode can be set. You can move freely between each setting using the [UP] and [DOWN] keys. The channel name is set using the [LEFT] or [RIGHT] keys to display the channel which broadcasts the programme to be recorded. The start time, end time and date are each set with the number keys on the remote control in 24-hour format. The frequency mode determines how often the receiver operates this event and is set with the [LEFT] or [RIGHT] keys to be either Once, Daily, or Weekly.



Hint

If an invalid number for the start or end times or the date is entered, the highest valid number is automatically entered in its place. So, entering 28:30 as the time will automatically change to 23:30, and a date of 15:14:2002 will change to 15:12:2002.

Pressing [MENU] or [SELECT] returns to the Timer screen with the settings in place in the timer event list. The event mode is automatically set to Active and you can now return to normal viewing (press the [MENU] keys) and at the appointed time the receiver will switch over to the required channel and at the end of the event, receiver will .:

a- switch to previous mode before timer started.

b- switch to previous channel it was vewing before timer started.

c- switch to stand-by if it was in stand-by before timer started.

When the Timer screen is displayed, any event can be set to be Inactive (so it will not occur) or the channel, times and frequency mode altered by highlighting the event's Mode button and pressing [SELECT] as before.

You can exit the Timer screen and return to normal TV viewing by pressing [MENU].

Hint

If you are watching digital terrestrial TV at the time the timer event starts, a message is flashed onto the screen announcing that the receiver is 'Switching to timer channel' so you understand what is happening.

RE-INSTALLATION

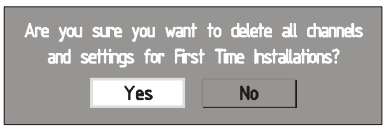
Although your DVB - T receiver will not lose its settings or stored channels when switched off, you may wish to re-install the receiver because you have moved to a different area with different broadcast frequencies, you wish to reinstade a channel previously deleted from the channel list, or you want to watch new channels which have started broadcasting.

Press the [MENU] key to display the Main Menu and using the [UP] or [DOWN] keys, highlight the Installation line and press [SELECT] to display the Installation Menu.

You can either perform a First Time Installation, effectively resetting the receiver to its ex-factory condition, or just search for channels.

FIRST TIME INSTALLATION

To reset the receiver, highlight the First Time Installation line in the menu and press [SELECT]. A warning screen is displayed in case of accidental operation.



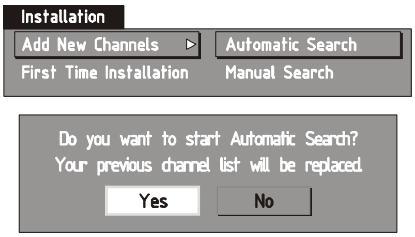
Highlight the YES button with the [LEFT] or [RIGHT] key and press [SELECT] to erase all the channels and settings and switch the receiver to standby. You can now start again as detailed in Section 1 - PREPARATION - Tuning In.

ADD CHANNELS

The DVB - T receiver can search for channels automatically (searching all the broadcast frequencies for free-to-air channels) or manually (searching one specified broadcast frequency only for any channels to be found there).

Press the [MENU] key to display the Main Menu and using the [UP] or [DOWN] keys, highlight the Installation line and press [SELECT] to display the Installation Menu. Highlight the Add New Channels line and press [RIGHT] to display the options. Select Automatic Search with the [UP] or [DOWN] keys and press [SELECT]. A warning message is displayed. This starts the automatic tuning process as described in Section 1 - PREPARATION - Tuning In, and searchesthrough all the available broadcast frequencies for free-to-air channels. Previous channels will be replaced on automatic search.

If, alternatively, from the search options menu the Manual Search line is highlighted and [SELECT] pressed, the manual search screen is displayed.



Highlight the YES button with the [LEFT] or [RIGHT] key and press [SELECT] to start the automatic search.

This is for searching for digital channels on a single broadcast frequency. The frequency channel number (21-69) is entered in the box at the top left of the screen and the received signal level and signal quality can be observed on the two bar graphs at the bottom. When [SELECT] is pressed, the receiver searches that frequency and display a list of the channels found. Before returning to the Installation menu.

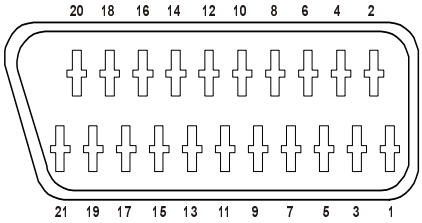
Hint

The bar graphs of signal quality and signal level give a good indication of whether any channels are likely to be found. If only the signal level graph shows a high value then it is likely that an analogue channel occupies that broadcast frequency. If the signal quality bar is high as well then it is a digital frequency and digital channels will probably be found.

Again, channels which duplicate those already in the channel list are ignored. However, the manual channel search will find all channels on the broadcast frequency.

When either search is finished, press the [MENU] key to return to normal broadcast viewing, to watch the new digital terrestrial television channels found.

TV SCART



1	Audio right output	12	TXD pin for sw download
2	n/c	13	Ground
3	Audio left output	14	n/c
4	Ground	15	Red output
5	Ground	16	Fast blanking output
6	n/c	17	Ground
7	Blue output	18	Ground
8	Function switching output	19	CVBS output
9	Ground	20	n/c
10	RXD for sw download	21	Ground
11	Green output		

APPENDIX C - TROUBLESHOOTING (FOR DVB)

If you experience problems with the DVB - T receiver or its installation, in the first instance please read carefully the relevant sections of this User Guide and this Troubleshooting section.

Problem	Possible cause	What to do
No signal found	Aerial is disconnected Aeriai is damaged/misaiigned Out of digital signal area	Check aerial lead Check aeriai Check with dealer
No picture or sound	Tuned to digital teletext channel	Retune to another channel
Scrambled channel message	Channel is scrambled	Select alternative channel
No response to remote control	Receiver off Handset not aimed correctly Front panel obstructed Handset batteries exhausted	Plug in and turn on receiver Aim handset at front panel Check for obstructions Replace handset batteries
Forgotten channel lock code		Re-install channels to cancel channel lock
Forgotten menu lock code		Contact help line
The remote control will not operate your DVB - T3 receiver	(1) The batteries in your remote control need replacing (2) There is an obstruction blocking the signal path between the remote control and the receiver	(1) Replace the batteries (2) Check that there is nothing in the way of the path between the remote control and the receiver
After moving the DVB - T3 receiver to another room you find you are no longer able to receive the digital reception	The aerial feed former new point may come through a distribution system which may reduce the digital signal now ecelved by the DVB - T3 receiver	Try a direct feed from the antenna

TROUBLESHOOTING (FOR DVD)

The picture quality is poor (DVD)

- Make sure the disc surface is not damaged. (Scratch, fingerprint etc.)
- Clean the disc and try again.
  -See instructions described in page 6 to clean your disc properly.
- Ensure that the disc is in the drawer with the label uppermost.
- A damp disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

Disc does not play

- No disc in the machine.
  -Place a disc onto the tray.
- Disc incorrectly loaded.
  -Ensure that the disc is in the drawer with the label uppermost.
- Wrong type of disc.
  -Use disc in supported formats described in page 2.
- The region code of the disc must match the one of the player.

Wrong OSD language

- Select the language in the set-up menu.

The language for the sound or subtitles on a DVD cannot be changed.

- Multilingual sound and/or subtitles not recorded on the disc.
- Try to change the sound or subtitles using discs title menu. Some discs do not allow the user to change these settings without using the disc's menu

Some functions (Angle, Zoom etc) do not work

- These functions are not available on the disc.
- Angle can only be changed when the angle symbol is displayed.

No picture

- Check that the player is connected to TV properly and that all connections between the DVD player and other attached equipment are secure.
- Have you pressed the correct buttons on the remote control? Try once more.

No sound

- Check the volume is set to an audible level.
- Make sure you have not switched the sound off accidentally.

Distorted sound

- Check that the appropriate listening mode setting is correct.

5.1 Audio is not available

- Make sure that Disk contains 5.1 Audio and it is selected
- Make sure that in Audio Setup, Downmix mode is OFF.
- Check that speakers are on in Speaker Setup in Audio Setup.
- Make sure that you connected the speakers correctly.

No response from remote control

- Make sure the remote control is in the correct mode.
- Check batteries are fitted correctly.
- Change the batteries.

If nothing works

If you have tried the above solutions and none seem to work, try switching your DVD player off and on again. If this does not work, contact your supplier or DVD player repair technician.
Never attempt to repair a defective DVD player yourself.

APPENDIX D - SPECIFICATION(FOR DVB)

SYSTEM

Processor	STI5518 32bit @ 81 MHz
Flash memory	2Mbyte
SDRAM	16Mbyte
EEPROM	32Kbit
MHEG-5 engine	compliant with ISO/IEC 13522-5 and UK Engine Profile1
Object carousel support	compliant with ISO/IEC 135818-6 and UK DTT Profile

RECEPTION

Frequency range	474-858MHz
Signal level	-82dBm
Transmission standards	DVB-T, MPEG-2
Demodulation	COFDM with 2K/8K FFT mode
FEC	all DVB modes
Video	MP@ML, PAL, 4:3/16:9
Audio	MPEG Layer I & II 32/44.148kHz

CONNECTIONS

UHF aerial input

UHF aerial loopthrough

SPECIFICATIONS (FOR DVD)

DVD / VIDEO CD / CD player/ Radio / Amplifier

Power Requirements	220 240 ~50 Hz Max.150 Watt Auto Adjustable
Types of Discs Supported	**DVD**: SS/SL 4.7" (DVD-5) SS/DL 4.7" (DVD-9) DS/SL 4.7" (DVD-10) DS/DL 4.7" (DVD-18) **VCD*** **CD-DA** **CD-R** **CD-RW** **MP-3*** **JPEG**
Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported) Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixel 50 and 60 Hz frame refresh rates (PAL & NTSC) Digital bit-stream processing rate up to 108Mbits/sec Line resolution more than 500 lines
Video Input (Optional)	**Analog Video** **CVBS** : PAL / NTSC (Negative synchronised), 1Vpp @ 75Ω (loaded) **RGB + CVBS** : Through Full Euroscart input
Video Output	**Analog Video**: (With using 4 x 10-bits / 27MHz video DACs) **CVBS** : PAL / NTSC (Negative synchronised), 1Vpp @ 75Ω (loaded) **S-VIDEO** : Y Output : 1Vpp @ 75Ω (loaded), C Output : 286 mVpp @ 75Ω (loaded) (NTSC) 300 mVpp @ 75Ω (loaded) (PAL) Through 4-pin MiniDIN S-VIDEO connector or **RGB + CVBS** : Through Full Euroscart Output (Pin-8 Control)
Audio Type	Dolby Digital Decoding MPEG Multichannel Decoding LPCM DTS Decoding (Optional)
Audio Output	**Analog Outputs:** 24 Bit/ 96, 48, 44 1kHz down-sampling DAC **2** RCA jack outputs (Left / Right) Left / Right audio outputs of Full Euroscart **Output / Channel:** 2 Vrms (0 dB fs, 1kHz)
Audio Inputs	SCART (Left and Right audio inputs of Full Euroscart) 2 RCA jack inputs (Left / Right)
Digital Audio Output (Optional)	SPDIF Optical and Coaxial
Power amplifier	**Output power:** 20W RMS at 10% THD x 5 for front, rear and center speakers, 35W RMS at 10% THD for Subwoofer
Tuner section	**[FM]** (75 ohms) **Receiving Range:** 87.50 MHz ~ 108 Mhz
Dimensions	420 mm(W) x 60 mm(H) x 361,2 mm(D)

DEFINITION OF TERMS

Angle

Recorded onto some DVD's are scenes, which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter Number

These numbers are recorded on DVD's. A title is subdivided into many sections, each of which are numbered, and specific parts of video presentations can be searched quickly using these numbers.

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG II) and high-density recording technology. DVD enables aesthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6-mm thin discs, which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD has a greater capacity than a single 1,2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration play.

Playback Control

This is recorded on a Video CD (Version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

These are printed lines appearing at the bottom of the screen, which translate or transcribe the dialogue. They are recorded on the DVD's.

Time Number

This indicates the playtime, which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (Not all discs permit the time search feature to be used. Availability is determined by the disc's manufacturer.)

Title Number

These numbers are recorded on DVD. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track Number

These numbers are assigned to the tracks, which are recorded on AudioCDs. They enable specific tracks to be located quickly.

Video CD

This contains recordings of pictures and sound whose quality is on a par with that of videotape. This player also supports Video CDs with playback control (Version 2.0).

Dolby Digital

Many movie theatres are equipped with 5.1 channel surround systems. This same type of technology is available to you in your home. To enjoy full 5.1-channel surround, your DVD player must be connected to an external Dolby Digital decoder via the digital outputs (either coaxial or optical).

Dolby Pro Logic

This is Dolby Laboratories' technology to decode Dolby Surround encoded programs actively. Dolby Surround programs have four channels of audio (Left, Center, Right and Surround) encoded into a standard 2-channel stereo signal. The rear channel is monaural.

PCM

PCM stands for Pulse Code Modulation and is digital audio.

MPEG

Short for Moving Picture Experts Group. This is an international standard for compression of moving images. On some DVDs digital audio has been compressed and recorded in this format.

DVB

Digital video Broadcasting

MHEG

MHEG is an acronym for Multimedia and Hypermedia Experts Group. MHEG standard is a standard for interactive applications. It defines a set of objects that can be arranged into applications. An MHEG application would typically be used in applications such as digital TV.

LPCM

LPCM is an uncompressed digital audio sampling process that has a large appetite for storage space. Sampling frequencies can be either 48 or 96kHz with up to eight channels on a DVD.

VFD

Vacuum Fluorescent display.

DVB-T

Digital Video Broadcasting Terresterial.

UK GUARANTEE

Your Guarantee of Excellence

Thank you for purchasing this Hitachi product

In the unlikely event that this product should develop a fault, we undertake to replace or repair any part of the product which fails due to a manufacturing defect within 12 months of the date of purchase provided that:

i) The product has been installed and used only in accordance with the instructions supplied with the product.

ii) The product has not been repaired, maintained, or modified by any person other than a Hitachi authorised engineer.

iii) The product serial number has not been removed or altered.

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